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The Differences among the Levels of Emigrants Jordanian Tourists Satisfaction in Arabian Gulf Countries on the Strategies of Tourism Marketing in Jordan due to Demographic Features

Mashael Saqer Al Khasawneh¹, Yaser Uisa Almomany² and Akif Lutfi Al-Khasawneh^{3*}

¹Department of Tourism, Ministry of Tourism and Antiquities, Jordan.
²Ajloun National University, College of Business Administrative, Ajloun, Jordan.
³Department of Financial and Administrative Sciences, AL-Huson University College, AL-Balga' Applied University, Irbid, Jordan.

Authors' contributions

This work was carried out in collaboration between all authors. Author ALAK designed the study, wrote the protocol and wrote the first draft of the manuscript. Author MSAK managed the literature searches, analyses of the study performed the spectroscopy analysis and author YUA managed the experimental process. All authors read and approved the final manuscript.

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ABSTRACT

The study aimed at identifying the differences among the levels of emigrants Jordanian tourists' satisfaction in Arabian gulf countries about reality of applying strategies of tourism marketing including (strategy of tourism productions, strategy of Prices of tourism products, strategy of promotion of tourism products, strategy of distribution of tourism products, strategy of physical environment of service, and operations strategy to provide tourist services) on the different tourist Jordanian locations. In addition to identify the

impact of applying these strategies on Jordanian tourism expat's satisfaction. Analytical descriptive approach has been used for population of the study that consisted of Jordanian tourist expats. (845) of questionnaires were distributed depending on snow ball method. (779) of questionnaires were considered retrieval. The study revealed that there are statistical significant about the level of satisfaction for demographic features of tourists on strategies of tourism marketing expect gender which didn't shown any difference. There are no statistical significant about the level of satisfaction on strategic product promotion due to job sector of tourists.

Keywords: Tourists' satisfaction; tourism marketing strategy; Emigrant's Jordanian tourist; Arabian Gulf countries.

1. INTRODUCTION

Today, tourism plays a major development role in all areas, both at international and national levels, has aroused public policy makers' and private sectors' decision makers' attention. With regard to this fact, many countries are seeking a way to improve their economic conditions [1]. There are many reasons motivating tourism organization to be effective and impressive sites and attractive elements for tourists in the future, including intensity competition in tourism sector. customers' obsession and opening up marketing to each other. It attracts tourists through not only what nature has formed and what has been but also working inherited on tourism manufacturing and investing in all different elements of environment to be confirmed with needs and requests of the human being in order achieve best services. Additionally, organizations and decision maker have realized that tourism development connects with business programs and organized strategies depends investing knowledge embedded administration and marketing to achieve level of excellence in services, products, process and new methods seeking for accomplishing positive advantages to be distinguished on other organizations, aiming to reach to tourist's satisfaction to increase his loyalty and belonging to these sites where he/she visits to be effected positively on extending period of accommodation and presenting positive image to friends, relatives and others.

Wu and Zhang [2] indicated that marketing strategy plays a significant role in all sectors in general and tourism sector in particular. In accordance that this sector is distinguished by different activities interacting and it is connected with two systems from one hand. From the other hand, marketing strategy includes a complicated mix firm sale and service products. So, the sector and those who support were imposed to improve this sector through diversity in applying functions

of other field of science such as administration, marketing, human resource, psychology and sociology.

Since this strategy has an effective role focusing on comprehensiveness and dimension of extent in dealing with different cases to rescue organizations and other sectors from weakness and to preserve it to be in the levels of excellence and competition in business markets in all levels (local, regional and international). It is being sure that any organization seeks to establishing and developing capabilities. Also, competitive position is being based on the need to work in accordance to associated strategy that empowers organizations to achieve accomplish their objectives sufficiently and effectively in the light of grand competitive challenges which comprehend all business sector in general and tourism in particular. Adding to that this matter has a clear role in achieving different positive and developmental returns in all fields including (economical, cultural, social and environmental).

Khalil [3] has seen that this strategy considered one of the most mediators that the organizations depend on to excellence among all competitors.

Contemporary, tourism is no longer practiced randomly or limited to countries that lack the resources, but all countries globally interested in. it was applied scientifically and according to managerial business marketing and planned strategies depending on careful study and accurate analyses grantee an effective environment meets the needs and the desires of tourists.

2. PROBLEM OF THE STUDY

It stand s out increasing the number of tourists who come to Jordan because of tourism transformation due to the status of instability, wars, internal struggles but Jordan is

distinguished by safe and security. So, political and managerial decision maker in both sectors (public and private) has to interest in tourism sector, work on polarize the tourists, meet their needs, marketing different sites and focusing on adopting different elements of tourism marketing mix to be able to maintain the process of attraction tourists and increase their level of satisfaction to be reflected on their belonging and extending the period of accommodation.

3. QUESTIONS OF THE STUDY

The study included one main question, which is: Is there any difference in the level of satisfaction of emigrants Jordanian tourists working in Arabian gulf countries about the reality of applying the strategies of tourism marketing including (strategy of tourism productions, strategy of Prices of tourism products, strategy of promotion of tourism products, strategy of distribution of tourism products, strategy of tourism products employees, strategy of physical environment of service, and operations strategy to provide tourist services) tourism sites in Jordan due to demographic features such as gender, age, qualification, job sector, job position?

4. SIGNIFICANCE OF THE STUDY

This study is considered important because it talks about real of tourism in Jordan from the perspective of Jordanian tourist who lives outside Jordan for different purposes. He forms the center of the political process and main decision maker in developing and improving tourism in accordance t needs of tourist and his basic desires. It also has an importance for decision makers and planners of tours in and marketing policies at the tourism ministry to be able to be able in the light of the results achieved to benefit from the results and recommendations made to enhance the strengths in marketing strategies in the field of tourism and address their vulnerabilities commensurate with the need and

desires of the Jordanian tourist expatriate in the Arab Gulf states

5. OBJECTIVES OF THE STUDY

The study aims at identifying differences in the level of tourist's satisfaction due to demographic features searched at the study in order to benefit from its result in planning the policies of tourism marketing in Jordan and setting strategies confirm challenges and environmental different changes.

6. METHODOLOGY OF THE STUDY

6.1 Reliability

To verify from stability of the tool, (test- retest) was applied after two weeks on a group reached to (55) Jordanian emigrant tourists. Pearson correlation was calculated twice.

Reliability coefficient was calculated by internal consistency due to Cronbach Alpha equation. Table 1 shows Consistency coefficient and Cronbach Alpha equation for all fields, and tool as whole. This value was considered appropriate for the study because it is higher than (60%).

6.2 Study Method

Descriptive analytical approach has applied to identify the differences in the level of Jordanian tourist's satisfaction emigrating in Arab gulf countries about the strategies of tourism marketing in Jordan due to demographic features.

6.3 Study Population

It is consisted of Jordanian tourists in Arab gulf countries who have visited different tourist sites in Jordan during study implementation. Knowing that population was restricted on Jordanians in province of Irbid.

Table 1. Consistency coefficient and Cronbach Alpha equation

Field	Test-retest reliability	Content validity
strategic tourism products	0.84	0.78
strategic tourism pricing	0.87	0.85
strategic tourism promotion	0.88	0.84
strategic tourism distribution	0.82	0.81
employees tourist strategy	0.85	0.85
physical evidence tourist strategy	0.84	0.83
process tourist strategy	0.86	0.80
Total degree	0.87	0.95

6.4 Study Sample

Snowball sample was used due to the difficulty of determination or restricting the amount of the population of the study and there was no list of original population. It is one of the studies that discover new individuals their tasks are guiding the researchers and supplying necessary information. The researchers have restricted the sample reaching (845) tourists. The questionnaires were distributed on all the individuals. (779) of questionnaires were retrieval forming (92%).

6.5 Study Tool

The questionnaire was used as a tool for data collection empirically. In addition, fifth Likert Scale was taken in designing the study. The scales were ordered as very high (5), high (4), not sure (3), low (2), very low (1).

6.6 Data Collection

Two types of data were used dividing into: secondary data and primary data to reach for objectives in which the study has sought for.

6.7 Statistical Analysis Methods

SPSS was applied in analyzing the data. Means, standard deviation, percentages, frequencies, One- way ANOVA and sample T-Test. But about the statistical norm that the researchers had used in classifying means as the following: 1-2.33 "low", 2.34-3.66 "medium", 3.67-5 "high".

7. LIMITATIONS OF THE STUDY

- Locative Limitations: it includes emigrants Jordanian tourists who live in Irbid at Hasmite Kingdom of Jordan.
- Time Limitations: it was applied in July and august 2014. It is the time when tourists come to Jordan because of:
 - Vacations and holidays of universities and schools.
 - Climate and summer atmosphere in Jordan.
 - Festivals and religious vacation.

8. OPERATIONAL DEFINITIONS OF THE STUDY

In accordance to what the study has embedded including terms and concepts, and to define and

unify definitions, it should be taken into consideration clarifying these definitions and terms used by researchers in this study.

8.1 Tourism Marketing Strategies

Conducting a comprehensive organized plan in which we can use mix of techniques and different tourism elements including (strategic tourism products, strategic tourism pricing, strategic tourism promotion, strategic tourism distribution, employees tourist strategy, physical evidence tourist strategy and process tourist strategy) in tourism sector and working to develop it and add new positive advantage complies needs and wishes of tourists. This increases the level of satisfaction, attention, maintain the duration of accommodation, repeat their visits and protect them from traveling to other countries. This dimension will be measured due to tourism marketing elements:

- Strategic Tourism Products: Features and descriptions in which tourism products differentiated by due to name of product, and services belonging to it, quality and clean, material organizing into tourism products in accordance to instructions and providing information.
- Strategic Tourism Pricing: Value of products, services and facilities payed by tourist during his visiting to tourist locations and places in Jordan including tickets pricing, traveling, transportation, accommodation, food, drink, discounts and assurance.
- Strategic Tourism Promotion:
 Communication methods used with a tourist to be attracted for tourist places, and increase their satisfaction and effect on their buying behaviors.
- Strategic Tourism Distribution: Offering service and tourism products to tourist equally and accordance to quality standards in all entire places that he visits for achieving different benefits including (locational, timing and formal) benefits to be able to reach for hid needs and desires at any place that he usually visits without any suffering.
- Employees Tourist Strategy: It means all surrounded of tourist in the place he visits in which they found developing as local community, tourism performance, and restaurants' employees, employees of travelling companies and seller of tourism products. Also, for what they have from

- positive behaviors including dealing, uniform, skills and response.
- Physical Evidence Tourist: It means tangible things and gadgets increasing the level of comfortability and entertainment, offering all tools and facilities that doubling has level of satisfaction including (furniture, household, chairs, colors, decoration, atmosphere of place, offering all kinds of taxies, bus station, practicing sport and enjoyment games and type of music etc.).

8.2 Process Tourist Strategy

Managerial and technical action applied for the tourist used modern techniques by different institutions and employees to ease all his procedures and transactions without delaying, late, and any complexion in policies. There should flexibility in instructions and regulations, respecting the program of the trip, accuracy in complying their needs, discretion, speed in booking and transit of luggage and travel bags.

8.3 Tourist Satisfaction

Degree of tourist's satisfaction and feeling comfort ability about the strategies of tourism marketing used in the sector, and that in the result of Satisfy their needs and desires while visiting tourism places in Jordan. Level of satisfaction will be measured through particular tools of satisfaction and (negative and positive) accept also will be measured through answering on every paragraph of dependent variable elements embedded at the questionnaire.

8.4 Jordanian Emigrants Tourist

A citizen who beholds Jordanian nationality and resides outside the Jordanian border because of work. He usually visits Jordan during vacations, holidays, and different festivals and anniversaries for factors of comfort ability and enjoyment.

8.5 Arab Countries Gulf

Countries located on Arab gulf and they are six countries including (UAE, Bahrain, KSA, Oman, Qatar, and Kuwait). They are Permanent members of the Gulf Cooperation Council (GCC) which was established in 1981 in Riyadh the capital of kingdom Saudi Arabia.

8.6 Jordan

It is named as Hashemite Kingdom of Jordan. It is an Arabian country followed parliamentary

constitutional monarchy. It is situated in western south of Asia, in the center of Middle East, in the southern part of Levant, and northern part of Arabian Peninsula. It has mutual borders with Syria from north, Palestine form west, Iraq from east, and KSA from south.

8.7 Tourism

Transformation process form the original accommodated place into another country seeking for achieving different objectives including (enjoyment, health, study, presence of meeting, conferences, sport, religious visiting, family trips, and other objectives).

9. LITERATURE REVIEW

9.1 The Concept of Tourism and Marketing Strategy

There are many definitions of tourism, like other definitions or other concepts due to the orientations of intellectuals, scholars and those interested in this area in line with the nature of the study and the aspects and elements included in their studies.

Tourism was defined by Hollaway [4] as the interim process of movement and residence in another place not less than 24 hours for recreational purposes, or health, or sports or school or religious.

The World Tourism Organization defined tourism as the term given to the recreation trips, and all related activities to satisfy the needs of the tourist [5].

Hunziker and Kraft in 1942 which are also one of the first they defined it as the total relationships and natural phenomena that result from the establishment of the tourists so they are not a permanent residence and is not practicing any kind of work, whether permanent work or temporary work [6].

Mcintosh & Goeldner [7] defined it as a set of relations and phenomena that appear as a result of the interaction between tourists and businesses, governments and bodies of the host in order to attract and host tourists and visitors.

From the researcher's point of view, it is considered that tourism is a temporary movement between the various tourist sites visited for the purpose of self-entertainment and change daily routine.

But according to the definition of Marketing Strategy, Cravens and Piercy [8] has defined Marketing Strategy as "a process is developing a vision for markets, defining strategies for subjective marketing, determining objectives, implementing marketing strategies designed to meet the needs of value for consumer in every market".

Sharma [9] has defined Marketing Strategy as " a process of improving performance through using sub-strategies as strategy of developing services after sales, Strategy of Forecasting market, strategy of developing new market, Market share analysis or another strategy confirms the objective market.

Rachman [10] has defined Marketing Strategy as "the plan that defines ways of customer care service due to quality, pricing, promotion and distribution for achieving satisfaction.

Pride & Ferrell [11] has defined Marketing Strategy as "an organized work plan aims at identifying, studying, analyzing objective market, and working on improving market mix meets the needs and the desires of customers at that market.

There is other definition for marketing strategies, but researchers think that definition of Pride & Ferrell [12] is the most definition confirm with objectives of the present study.

While, according to definition of the tourism marketing Al-Nsoor [13] has defined tourism marketing as "it is a process trended toward to tourists for offering their needs through different distribution channels".

Baker [14] clarified that tourism marketing definition connected with set of elements interacting with each other for achieving marketing objectives of the organization due to marketing perception.

Researchers who conducted this study have defined it as "an activity depends on approach method offering a comprehensive information system about different tourism locations in the country confirm needs and desires of tourist to effect on his perception and attraction toward to these locations".

9.2 Purposes of Tourism Marketing

The tourism marketing creates a lot of purposes such as [15]:

- Seeking for achieving and gaining satisfaction of tourist. In addition, offering the product approves their needs and desires.
- Helping tourism organization and sector in achieving Profit returns in order to be able to offer their products and services for tourists perfectly.
- Highlighting tourist sites clearly and visible and give it the appearance terms of reputation and fame to influence the process of attraction for tourists to it.
- Supplying foreign currency for economy, activating the role of private sector, revitalizing movement of labor in different tourism areas and strengthen the county's relations with original home of the tourists.
- Facing competitors in this field and owning capability to achieve marketing balance in the area of supply and demand in order to defeat competitors and distinguish the product [16].

9.3 The Importance of the Tourism Marketing

Tourism marketing achieves importance in different institutional social and individual levels and other different levels such as:

- It contributes to manage trends of tourists and purchasing behavior in the development of products and services.
- Increase competition opportunities among competitors, which will reflect positively on tourists.
- It contributes in planning and tourism development process [17].
- It develops elements of marketing mix (product, service, pricing, promotion, distribution, process, physical environment) because it is hard to run on competitive marketing process without developing and improving these elements to achieve successfulness and excellence.
- It helps in managing information accurately and specifically when tourism marketing has real and serious competition [18].
- It activates marketing movement in the areas of economy including (foreign currency, occupancy capacity of the hotels and tourist resorts, and stimulate purchasing movement in the restaurants, museums and various commercial markets) [19].

9.4 Importance of Tourists Satisfaction

There are several of benefits for tourist's satisfaction such as:

- Maintaining the level of their belonging and loyalty for tourism organization in which they deal with and visit.
- Giving a guide for organization about its avalliability to achieve competitive advantage.
- Tourism origination's capability to achieve reputation and fame.
- Tourism origination's capability to achieve financial returns.
- Giving the tourist organization and its staff more self-confidence [20].
- Maintaining market share [21].
- Highlighting the positive image of the organization on others.
- It is considered organization's assets as human resource in which it is an important source of the organization [22].

9.5 Previous Studies

AL-Dmour & Aiesh [23] conducted a study on the impact of service marketing mix elements of five hotels in Jordan on the image of tourists. The study aimed at identifying the impact of some demographic characteristics in the image perceived by tourists as (gender, qualification, career, income, nationality). Analytical and descriptive approach has been used. A questionnaire was designed for data collection from population of the study representing by Arabian tourists and foreigners accommodate in five stars hotels by applying random sample. The result of the study has shown that there is satisfaction with tourists about the level of service presented to him. There is a relation between element of mix marketing and image perceived by tourists

But study of Khasawneh & Abu dalbooh [24] on evaluating attracting determiners for the marketing services in the Jordanian tourism sector into the southern region: An empirical study from perspective of customers. The study was based on Jordan's tourism sector and the determinants of attraction that faces as the study society was Southern Region / Jordan. To Study the tourism sites and to analyze the obstacles that faced it and that from the standpoint of customers, the tourism sites in Jordan reached till (5) Petra, Aqaba and Wade Rum, karaka, Dana. And the sample took at a rate of thirty

tourists for each site which means 150 customers. The study aimed to find out the determinants of attraction in the Jordanian tourism sector, and shows that Rising costs, Evolution of the laws and The strength of internal and regional competition, In addition to the lack of promotion budget and the low level of infrastructure for tourism services (Metadata infrastructure) all of these are the most multiple determinants that faces the Tourism sector. The study recommended to reduce the costs of buying tourism products and promote tourism families, And the development of laws to keep pace with developments in the tourist industry of Jordan and provide high-quality tourism products to overcome the difficulties of the internal and regional competition and to increase the allocations of promotion for the Jordanian tourist industry. at last the Rehabilitation infrastructure for tourism in Jordan.

Ketabi [25] conducted study on the Effect of the Marketing Mix of Services to Attract Customers, Banks (Case Study Tejarat Bank, Branches of Kermanshah Province. The purpose of this study Service marketing mix factors On bank customers (Case study: commercial banks, branches of Kermanshah province). The study population Customers include all banks are business Kermanshah Province that a society statistical formulas. Survey data using Gathered Data and raw data into meaningful And values for each variables unlimited Statistical sample of 300 people is estimated based on using data Questions it has been calculated Using SPSS software Considering both descriptive statistics and the statistics And inferential statistics were processed and analyzed. For data analysis of two test T-TEST Correlation test was used. Results confirm the existence of the relationship between the Marketing mix of services to attract customers on the bank's business.

Arkiasamy [26] conducted study on the effect of Marketing Mix and Customer Perception on Brand Loyalty. The Malaysian hypermarkets have steadily increased over the past decades with brand loyalty emerging as a frontrunner in the retail industry. There have been copious studies related to the effects of marketing mix towards brand equity instead of brand loyalty. It is the intention of the researcher to identify the effects of marketing mix on brand loyalty in the Malaysian hypermarkets sector. A total of 300 questionnaire surveys have been distributed to customers at 3 hypermarkets around Klang Valley in Malaysia. Lastly, the researcher uses a descriptive and explanatory study by means of

descriptive and inferential analysis. In conclusion, price, store image, distribution intensity and price promotion are found to exert a significant positive influence towards Malaysian hypermarkets' brand loyalty.

Owomoyela [27] conducted study on the investigating the impact of marketing elements on consumer loyalty: An empirical study on Nigerian Breweries PLC. This research paper investigates the effect of marketing mix elements on consumer loyalty with special reference to Nigerian breweries Plc. The survey research design method was used in this study which involves using a self-design questionnaire in collecting data from sixty (60) respondents, six managers and ten sales representatives of Nigerian breweries Plc. ten distributors and thirty four consumers from different joints in Ibadan were selected respectively. The instrument used in this study is a close-ended questionnaire that was designed by the researchers. Correlation coefficient and multiple regression analysis were used to analyze the data with the aid of statistical package for social sciences (SPSS) version 20. The result showed that marketing mix elements have significant effect on consumer loyalty. Subsequently, recommendations were made to the management of Nigerian breweries that they should continue produce superior products; charge competitive prices, position appropriately, promote widely, and provide other distinctive functional benefits to consumers.

Nezami [28] conducted study on the reviewing the Impact of Marketing Mix on Brand Equity (Case Study: ETKA Stores. This study was conducted with the aim of reviewing the impact of marketing mix on brand equity in customer's viewpoint of Etka stores. Marketing mix in this research included price, store image, distribution intensity, advertising and sales promotion which influenced brand equity by impact on dimensions of brand equity, i.e. perceived quality, brand loyalty, awareness, and brand associations. Statistical populations of this research were 169 customers of Etka stores in Tehran city, data were collected using a questionnaire, and hypotheses were tested using Pearson correlation test. The finding showed that four marketing mix, i.e. catalog image, distribution intensity, advertising and sales promotion among five marketing mix only the price had a significant impact on brand loyalty.

Gilanina, et al. [29] conducted study on the investigating Effect of Marketing Mix on the Willingness of Students to participate in Private

Class. The Purpose of this study is to investigate relationship between marketing mix willingness of students to participate in a private class of mathematics. Research method is Selected descriptive. statistical population includes female high school students and pre university students in Talesh (Iran) city, that 201 students were selected through random sampling method. A questionnaire was used to collect data. In order to analyze the data was used chisquare test. According to obtained results observed that all components of the marketing mix (price, place, product and promotion) have relationship with willingness of students to participate in private classes of mathematics.

The researchers can say after reviewing several studies that the percent study characterized form other previous studies in different things such as:

- This study is characterized by its subject and topic. It deals with tourism sector due to the process of research and investigation. It is the first in which it discusses the elements of marketing mix in tourism activities considering one of the most important vital sectors for any country and modern time.
- It focuses on marketing mix elements including (product, price, promotion, employees, physical environment, and operations). They are the core tourism marketing strategy. So it can be described as comprehensive, generalized in service sectors in general and tourism sector in particular.
- This study is considered a unique at the Arab environmental scientific research. So the results that will be reached will obtain a value added to the Arabian libraries.

10. STATISTICAL ANALYSIS

10.1 Describing Features of Study Sample

Frequencies and percentages were extracted, the results relating sample individuals were summarized as shown below in Table 2:

- **Gender:** Table 2 shows that males (461) were more than females (318). The percentage of males (59.2%) whereas females (40.8%).
- Age: Table 2 shows that age category (40-49) years come in first level, frequencies (198) and percentage (25.4%). Second level, age category (less than 20) years

(169) (21.7%). Third, (30-39) (143) (18.4%). fourth, (40-49) (143) (18.4%). In the final level, age category (more than 50 years) (82) (10.5%).

- Qualification: Table 2 shows that majority of ample individuals are belonged to category of (Bachelor), frequencies (294) and percentage (37.7%). Second (secondary) (30.0%) (234). Third, (16.4) (higher studies) (128). In the final level.
- **Job sector:** Table 2 shows that majority of this sample's individuals are tourists working in Arab Gulf countries at public sector, frequencies (350) and percentage (44.9%). Whereas the number of employees of private sector (304) (39.0%). In addition the category of tourist who "don't work" (125) percentage (16.0%).
- Job position: Table 2 shows that majority of sample individuals are from category of (an employee). reached (569) and percentage (73.0%). Second, two categories οf (manager) and (housekeeper) (10.9%). (85)Final, category of (without work) (40) (5.1%). This indicates that the most tourists are working in ordinary jobs.

Question one: is there any difference in the level of Jordanian tourist's satisfaction on the reality of applying tourism marketing due to demographic features (gender, age, qualification, job sector, job position, monthly income and number of trips)?

To answer on the question, means and standard deviation the level of Jordanian

tourist's satisfaction on the reality of applying tourism marketing due to demographic features (gender, age, qualification, job sector, and job position) were extracted. In addition to identify statistical differences among means, "T" of gender and Enova were applied. Table 3 shows:

Table 3 shows that there are no statistical significant at (α = 0.05) due to the gender in all sub- levels and total degree. This means that there is type of satisfaction in applying strategies of tourism marketing. This supports the hypothesis saying "there are no statically significant about the level of Jordanian tourist in Arab gulf about stagey of tourism marketing due to gender".

Table 4 shows that there is difference in means and standard deviation for level of Jordanian tourist in Arab gulf about stagey of tourism marketing due to age. To show the statistical differences among means, ANOVA was applied. Table 5 shows that.

Table 5 shows that there are statistical significant at $(\alpha=0.05)$ due to age years in all sub-levels and total degree except the level of satisfaction on strategy of tourism products pricing.

Table 6 shows that a difference in means and standard deviations for the effect of qualification on tourists' satisfaction on the reality of applying tourism marketing. Knowing the statically significant needs to use ANOVA as shown in Table 7.

Table 2. Frequencies and percentage due to study variable

Characteristic	Category	Frequency	Percentage
Gender	Male	461	59.2
	Female	318	40.8
Age	Less than 20 years	187	24.0
_	21-29	169	21.7
	30-39	143	18.4
	40-49	198	25.4
	More than 50 years	82	10.5
Qualification	Secondary stage	234	30.0
	Diploma	123	15.8
	Bachelor	294	37.7
	Higher studies	128	16.4
Job sector	Public	350	44.9
	Private	304	39.0
	I don't work	125	16.0
Job position	An employee	569	73.0
•	Manager	85	10.9
	House keeper	85	10.9
	No work	40	5.1
	Total	779	100.0

Table 7 shows that there are statistical significant at $(\alpha=0.05)$ due to qualification in all sub-levels and total degree. This means that category of

"secondary" is the most affected except stratification level of tourism products pricing strategy was for "diploma".

First: Gender

Table 3. Means, standard deviation and "T" for the effect of gender on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Gender	No.	Mean	Std. deviation	"T"	Free degree	Statistical significant
strategic tourism products	Male	461	3.36	.674	1.053	777	.292
	Female	318	3.30	.787			
Strategic tourism pricing	Male	461	2.77	.857	-1.156	777	.248
	Female	318	2.84	.843			
Strategic tourism promotion	Male	461	2.60	.833	-1.030	777	.304
,	Female	318	2.67	.833			
Strategic tourism distribution	Male	461	3.03	.786	.278	777	.781
Ğ	Female	318	3.02	.790			
Employees working in tourism	Male	461	3.07	.806	125	777	.900
product strategy	Female	318	3.07	.841			
physical evidence tourist	Male	461	3.01	.834	245	777	.806
strategy	Female	318	3.03	.813			
process tourist strategy	Male	461	3.11	.717	1.635	777	.102
	Female	318	3.03	.756			
Total	Male	461	3.08	.558	.440	777	.660
	Female	318	3.06	.618	.787		

Second: Age

Table 4. Means, standard deviation and "T" for the effect of age on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Categories	No.	Mean	Std. deviation
Strategic tourism products	less than 20 years	187	3.62	.501
	21-29	169	3.40	.803
	30-39	143	3.34	.825
	40-49	198	3.09	.634
	More than 50	82	3.10	.728
	Total	779	3.33	.722
Strategic tourism pricing	less than 20 years	187	2.88	.645
	21-29	169	2.82	.884
	30-39	143	2.74	.863
	40-49	198	2.75	.828
	More than 50	82	2.82	1.177
	Total	779	2.80	.851
Strategic tourism promotion	less than 20 years	187	2.76	.820
,	21-29	169	2.71	.826
	30-39	143	2.75	.876
	40-49	198	2.51	.695
	More than 50	82	2.27	.974
	Total	779	2.63	.833
Strategic tourism distribution	less than 20 years	187	3.32	.619
G	21-29	169	3.02	.809
	30-39	143	3.19	.829
	40-49	198	2.80	.701
	More than 50	82	2.65	.892
	Total	779	3.03	.787
Employees working in tourism product	less than 20 years	187	3.28	.760
strategy	21-29	169	3.08	.870
<i>5,</i>	30-39	143	3.27	.834
	40-49	198	2.82	.714

Paragraph	Categories	No.	Mean	Std. deviation
-	More than 50	82	2.82	.845
	Total	779	3.07	.820
physical evidence tourist strategy	less than 20 years	187	3.29	.672
	21-29	169	3.13	.722
	30-39	143	3.06	.959
	40-49	198	2.78	.787
	More than 50	82	2.68	.917
	Total	779	3.02	.825
Strategic level on offering tourism services	less than 20 years	187	3.28	.582
	21-29	169	3.10	.754
	30-39	143	3.28	.768
	40-49	198	2.87	.646
	More than 50	82	2.73	.875
	Total	779	3.08	.734
Total	less than 20 years	187	3.25	.431
	21-29	169	3.12	.579
	30-39	143	3.17	.657
	40-49	198	2.89	.493
	More than 50	82	2.81	.735
	Total	779	3.07	.583

Table 5. ANOVA for the effect of age on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Source	Sum of	D.F	Mean	F	Statistical significant
Satisfaction level on strategic	Among groups	square 32,102	4	square 8.026	16.618	0.000
tourism product	Inside groups	373.802	774	.483	10.010	0.000
tourion product	Total	405.904	778	.400		
Satisfaction level on strategic	Among groups	2.265	4	0.566	0.780	0.538
tourism pricing	Inside groups	561.715	774	0.726		
, ,	Total	563.980	778			
Satisfaction level on strategic	Among groups	19.446	4	4.862	7.230	0.000
tourism promotion	Inside groups	520.437	774	0.672		
·	Total	539.883	778			
Satisfaction level on strategic	Among groups	42.113	4	10.528	18.510	0.000
tourism distribution	Inside groups	440.248	774	0.569		
	Total	482.361	778			
Satisfaction level on employees	Among groups	31.141	4	7.785	12.251	0.000
working on tourism product	Inside groups	491.872	774	0.635		
,	Total	523.013	778			
Satisfaction level on physical	Among groups	37.388	4	9.347	14.692	0.000
environment for tourism service	Inside groups	492.416	774	0.636		
or product	Total	529.804	778			
Strategy of offering tourism	Among groups	32.705	4	8.176	16.370	0.000
services	Inside groups	386.596	774	0.499		
	Total	419.301	778			
Total	Among groups	20.442	4	5.110	16.227	0.000
	Inside groups	243.761	774	0.315		
	Total	264.203	778			

Table 8 shows a difference means and standard deviation for the effect of job sector on tourists' satisfaction on the reality of applying tourism marketing. Knowing statistical significant needs to use ANOVA as shown in Table 9.

Table 9 shows that there are statistical significant at $(\alpha$ =0.05) due to job sector in all sub-levels and total except satisfaction level on tourism products. This means the hypothesis is

refused saying: "there are no statically significant about the effect of job sector on tourists' satisfaction on the reality of applying tourism marketing".

Table 10 shows a difference means and standard deviation for the effect of job position on tourists' satisfaction on the reality of applying tourism marketing. Knowing statistical significant needs to use ANOVA as shown in Table 11.

Three: Qualification

Table 6. Means and standard deviation for the effect of qualification on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Categories	No.	Mean	Std. deviation
Satisfaction level on strategic tourism product	Secondary	3.56	3.56	.586
	Diploma	3.51	3.51	.702
	Bachelor	3.20	3.20	.755
	High studies	3.05	3.05	.730
	Total	3.33	3.33	.722
Satisfaction level on strategic tourism pricing	Secondary	2.95	2.95	.758
	Diploma	2.93	2.93	.818
	Bachelor	2.74	2.74	.874
	High studies	2.55	2.55	.925
	Total	2.80	2.80	.851
Satisfaction level on strategic tourism promotion	Secondary	2.71	2.71	.870
	Diploma	2.99	2.99	.702
	Bachelor	2.55	2.55	.833
	High studies	2.33	2.33	.736
	Total	2.63	2.63	.833
Satisfaction level on strategic tourism distribution	Secondary	3.25	3.25	.682
Ç	Diploma	3.18	3.18	.727
	Bachelor	2.96	2.96	.815
	High studies	2.64	2.64	.788
	Total	3.03	3.03	.787
Satisfaction level on employees working on tourism	Secondary	3.20	3.20	.801
product	Diploma	3.26	3.26	.710
F	Bachelor	3.04	3.04	.842
	High studies	2.71	2.71	.792
	Total	3.07	3.07	.820
Satisfaction level on physical environment for	Secondary	3.27	3.27	.791
tourism service or product	Diploma	3.11	3.11	.669
	Bachelor	2.94	2.94	.857
	High studies	2.65	2.65	.790
	Total	3.02	3.02	.825
Strategy of offering tourism services	Secondary	3.23	3.23	.699
Charley of charmy tourion convices	Diploma	3.17	3.17	.684
	Bachelor	3.02	3.02	.772
	High studies	2.84	2.84	.679
	Total	3.08	3.08	.734
Total	Secondary	3.23	3.23	.505
. • • • • • • • • • • • • • • • • • • •	Diploma	3.23	3.23	.514
	Bachelor	3.00	3.00	.613
	High studies	2.78	2.78	.573
	Total	3.07	3.07	.583
	ı olai	3.07	3.07	.505

Table 7. ANOVA for the effect of qualification on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Source	Sum of square	D.F	Mean square	F	Statistical significant
Satisfaction level on strategic	Among groups	31.281	3	10.427	21.571	0.000
tourism product	Inside groups	374.62	775	.483		
•	Total	405.90	778			
Satisfaction level on strategic	Among groups	16.157	3	5.386	7.619	0.000
tourism pricing	Inside groups	547.82	775	.707		
, ,	Total	563.98	778			
Satisfaction level on strategic	Among groups	30.851	3	10.284	15.657	0.000
tourism promotion	Inside groups	509.03	775	.657		
·	Total	539.88	778			
Satisfaction level on strategic	Among groups	35.846	3	11.949	20.739	0.000
tourism distribution	Inside groups	446.515	775	.576		
	Total	482.361	778			

Paragraph	Source	Sum of square	D.F	Mean square	F	Statistical significant
Satisfaction level on	Among groups	24.980	3	8.327	12.957	0.000
employees working on	Inside groups	498.033	775	.643		
tourism product	Total	523.013	778			
Satisfaction level on physical	Among groups	34.992	3	11.664	18.269	0.000
environment for tourism	Inside groups	494.812	775	.638		
service or product	Total	529.804	778			
Strategy of offering tourism	Among groups	15.103	3	5.034	9.653	0.000
services	Inside groups	404.198	775	.522		
	Total	419.301	778			
Total	Among groups Inside groups Total	20.679 243.524 264.203	3 775 778	6.893 .314	21.937	0.000

Fourth: Job sector

Table 8. Means and standard deviation for the effect of job sector on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Categories	No.	Mean	Std. deviation
Satisfaction level on strategic tourism product	Public sector	350	.787	3.17
	Private sector	304	.600	3.42
	Don't work	125	.707	3.58
	Total	779	.722	3.33
Satisfaction level on strategic tourism pricing	Public sector	350	.885	2.67
	Private sector	304	.794	2.88
	Don't work	125	.841	2.98
	Total	779	.851	2.80
Satisfaction level on strategic tourism promotion	Public sector	350	.795	2.58
	Private sector	304	.834	2.67
	Don't work	125	.929	2.69
	Total	779	.833	2.63
Satisfaction level on strategic tourism distribution	Public sector	350	.838	2.87
	Private sector	304	.717	3.11
	Don't work	125	.712	3.28
	Total	779	.787	3.03
Satisfaction level on employees working on	Public sector	350	.849	2.95
tourism product	Private sector	304	.751	3.06
	Don't work	125	.803	3.42
	Total	779	.820	3.07
Satisfaction level on physical environment for	Public sector	350	.881	2.87
tourism service or product	Private sector	304	.709	3.03
	Don't work	125	.806	3.40
	Total	779	.825	3.02
Strategy of offering tourism services	Public sector	350	.788	2.97
	Private sector	304	.623	3.12
	Don't work	125	.784	3.26
	Total	779	.734	3.08
Total	Public sector	350	.635	2.94
	Private sector	304	.486	3.12
	Don't work	125	.562	3.29
	Total	779	.583	3.07

Table 9. ANOVA for the effect of job sector on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Source	Sum of square	D.F	Mean square	F	Statistical significant
Satisfaction level on strategic	Among groups	18.525	2	9.262	18.554	0.000
tourism product	Inside groups	387.379	776	.499		
·	Total	405.904	778			

Paragraph	Source	Sum of square	D.F	Mean square	F	Statistical significant
Satisfaction level on strategic	Among groups	11.894	2	5.947	8.359	0.000
tourism pricing	Inside groups	552.086	776	.711		
	Total	563.980	778			
Satisfaction level on strategic	Among groups	1.828	2	.914	1.318	0.000
tourism promotion	Inside groups	538.055	776	.693		
•	Total	539.883	778			
Satisfaction level on strategic	Among groups	18.823	2	9.412	15.756	0.000
tourism distribution	Inside groups	463.538	776	.597		
	Total	482.361	778			
Satisfaction level on	Among groups	20.526	2	10.263	15.850	0.000
employees working on tourism	Inside groups	502.487	776	.648		
product	Total	523.013	778			
Satisfaction level on physical	Among groups	25.877	2	12.939	19.924	0.000
environment for tourism	Inside groups	503.926	776	.649		
service or product	Total	529.804	778			
Strategy of offering tourism	Among groups	8.639	2	4.319	8.162	0.000
services	Inside groups	410.662	776	.529		
	Total	419.301	778			
Total	Among groups	12.847	2	6.423	19.830	0.000
	Inside groups	251.356	- 776	.324	. 0.000	000
	Total	264.203	778			

Fifth: Job position

Table 10. Means and standard deviation for the effect of job position on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Categories	No.	Mean	Std. deviation
Satisfaction level on strategic tourism product	An employee	569	.707	3.31
	Manager	85	.760	3.13
	Housekeeper	85	.696	3.62
	Total	40	.730	3.48
Satisfaction level on strategic tourism pricing	An employee	779	.722	3.33
	Manager	569	.820	2.75
	Housekeeper	85	1.022	2.91
	Total	85	.858	3.13
Satisfaction level on strategic tourism promotion	An employee	40	.705	2.64
	Manager	779	.851	2.80
	Housekeeper	569	.807	2.60
	Total	85	.849	2.77
Satisfaction level on strategic tourism distribution	An employee	85	.936	2.84
	Manager	40	.826	2.35
	Housekeeper	779	.833	2.63
	Total	569	.778	3.00
Satisfaction level on employees working on	An employee	85	.870	2.81
tourism product	Manager	85	.655	3.50
	Housekeeper	40	.613	2.83
	Total	779	.787	3.03
Satisfaction level on physical environment for	An employee	569	.798	3.02
tourism service or product	Manager	85	.852	2.89
	Housekeeper	85	.784	3.48
	Total	40	.840	3.30
Strategy of offering tourism services	An employee	779	.820	3.07
	Manager	569	.809	2.96
	Housekeeper	85	.810	2.84
	Total	85	.697	3.53
Total	An employee	40	.949	3.12
	Manager	779	.825	3.02
	Housekeeper	569	.706	3.07
	Total	85	.793	2.89

Table 11. ANOVA for the effect of job position on tourists' satisfaction on the reality of applying tourism marketing

Paragraph	Source	Sum of square	D.F	Mean square	F	Statistical significant
Satisfaction level on strategic	Among groups	11.827	3	3.942	7.753	0.000
tourism product	Inside groups	394.077	775	.508		
	Total	405.904	778			
Satisfaction level on strategic	Among groups	13.001	3	4.334	6.096	0.000
tourism pricing	Inside groups	550.979	775	.711		
	Total	563.980	778			
Satisfaction level on strategic	Among groups	9.297	3	3.099	4.527	0.000
tourism promotion	Inside groups	530.586	775	.685		
	Total	539.883	778			
Satisfaction level on strategic	Among groups	24.720	3	8.240	13.954	0.000
tourism distribution	Inside groups	457.641	775	.591		
	Total	482.361	778			
Satisfaction level on employees	Among groups	20.908	3	6.969	10.757	0.000
working on tourism product	Inside groups	502.106	775	.648		
-	Total	523.013	778			
Satisfaction level on physical	Among groups	27.109	3	9.036	13.931	0.000
environment for tourism service or	Inside groups	502.694	775	.649		
product	Total	529.804	778			
Strategy of offering tourism	Among groups	11.484	3	3.828	7.275	0.000
services	Inside groups	407.817	775	.526		
	Total	419.301	778			
Total	Among groups	10.683	3	3.561	10.886	0.000
	Inside groups	253.520	775	.327		
	Total	264.203	778			

Table 11 shows that there are statistical significant at $(\alpha = 0.05)$ due to job position in all sub-levels and total except satisfaction level on tourism products. This means the hypothesis is refused saying: "there are no statically significant about the effect of job position on tourists' satisfaction on the reality of applying tourism marketing".

11. CONCLUSION

The study concluded the following:

- There are no statistical significant due to gender, this means that there is confirmation between males and females according to stratification level on applying tourism marketing strategies. So, all strategies were considered important weather for males or females.
- There are statistical significant due to age in all sub-levels and total except satisfaction level on strategic pricing of tourism products. So, there are statistical significant related to the level of Jordanian tourists satisfaction who work in Arab gulf countries on applying the strategies of tourism marketing due to age for "less than 20" which means the younger tourist less the highest level of satisfaction.

- Due to qualification of sample's individuals, the results of the study have shown that there are statistical significant in all sublevels and total which means whenever qualification for the tourist less the highest level of satisfaction for tourism marketing strategies. The researchers attribute that whenever qualification for the tourist less, you will not obtain high salary or wage, which makes them accept the lowest level in tourism services, which accepts people with higher qualifications.
- Due to job sector of sample's individuals, the results have shown that there are statistical significant in all sub-levels and total which means So, there are statistical significant related to the level of Jordanian tourists satisfaction who work in Arab gulf countries on applying the strategies of tourism marketing due to job sector in particular fir "I don't work". This means that whenever the tourist without work whenever the highest level of satisfaction for tourism marketing strategies.
- Due to job position of sample's individuals, the results have shown that there are statistical significant in all sub-levels and total which means So, there are statistical significant related to the level of Jordanian

tourists satisfaction who work in Arab gulf countries on applying the strategies of tourism marketing due to job position in particular "housekeeper" position. This means that whenever it was "housewife" whenever the highest satisfaction level for tourism marketing strategies.

12. RECOMMENDATIONS

Upon the obtained results, the study recommends the following:

- Need to work on the deployment of strategic culture for tourism marketing and adopted by all business organizations in general, and organizations working in the tourism sector in particular due to its positive role in supporting individual, institutional and mass performance.
- The need for diversity in the provision of tourism products and services in various tourist sites due to diversity of demographic features as age, gender, cultural level, qualification and job position.
- Exploiting periods holidays, vacations and holidays and conducting various events and activities to attract tourist expatriate Jordanians who are working in Arabian Gulf Countries to direct their tourism destination toward to Jordan instead of other countries.
- Activating and adopting the strategy of tourism promotion in general, and in Arabian Gulf Countries (AGC) in particular through media press and crossings (airports and borders).
- 5. Working on the redistribution of different services in tourist sites, conducting special deals as pricing and providing privileges enable the visitor and tourist to achieve advantage such as (hotel service, accommodation, restaurants, malls (trade centers) and antiques.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

REFERENCES

 lamsoo M, Niroomand M, Rafsanjani H. The role of marketing on tourism industry. International Research Journal of Applied Sciences. 2013;4(1):73-80.

- Wu R, Zhang M. Research on the tourism effect and marketing strategy of Shenzhen city of China. Journal of Service Science and Management. 2013;6:151-159. Available: http://dx.doi.org/10.4236/jssm-2013.6201
- Khalil T. Managing of technology: The key competitiveness and wealth creation. Singapore: McGraw- Hill Companies Inc; 2000.
- Holloway C. The business of tourism. 4rd Ed. England: Addison Wesley Longman limited: 1996.
- Ghoneim O, Benita N. Tourism planning. Amman: Al-Safa house for publishing; 1999.
- Holloway C. The business of tourism. 4rd Ed. England: Addison Wesley Longman limited; 1996.
- Mcintosh R, Goeldner C. Tourism: Principles, Practices, Philosophies, 5th Ed. New York: John Wiley & Sons Inc; 1986.
- Cravens D, Piercy N. Strategic marketing. Boston: Mc Grow-Hill Higher Education; 2003.
- Sharma B. Marketing strategy. Contextual factors and performance: An investigation of their relationship. Marketing Intelligence & Planning, and (on-line). 2004;22(2). Available:file//A:emeraldinsigh.com
- 10. Rachman D. The Marketing Today, 2nd Ed. Rinehart: Winston Income; 1988.
- 11. Pride W, Ferrell O. Marketing: Concepts and strategies. Boston Houghton Mifflin Company. 2006;324.
- 12. Pride W, Ferrell O. Marketing: Concepts and strategies. Boston Houghton Mifflin Company. 2006;324-325.
- 13. Al-Nsour E. The basics of service marketing. Amman: Safa house for publications; 2008.
- 14. Baker M. The marketing. 3rd ed. Oxford: Linacre house; 1995.
- Ahmad A, Odeh S. Tourism management. Amman: Al mojtama Al arabi library for publishing and distribution; 2010.
- Mqableh K, Serabi A. Modern tourism marketing. Amman: Dar Wael for publication. 2001;29.
- 17. Hadeed E. Tourism marketing management. Amman: Al- Esra house for publishing and distribution. 2010;17.
- Mqableh K, Serabi A. Modern tourism marketing. Amman: Dar Wael for publication. 2000;32.
- Gilanina S, Sadat M, Mohammad O. Impact of marketing on tourism industry.

- International Journal of Business and Behavioral Sciences. 2015;5(2):39-46.
- 20. Hadeed E. Tourism marketing management. Amman: Al- Esra house for publishing and distribution. 2010;26.
- Sleima O. Banking services marketing and its effect on customer. Proposal of master. Algeria: Economic science institute. Higher education ministry; 2012.
- 22. Judah M. Total quality management concepts and applications. 3rd ed. Amman: Dar Weal for publication; 2008.
- 23. Al-Dmour H. The impact of marketing mix elements for five stars hotels: A comparative study. Jordanian Journal for Business Administration. 2005;1:101-121.
- Khasawneh M, Abu daybook M. Evaluating attracting determinants for the marketing services in the Jordanian tourism sector into the southern region: An empirical study from the viewpoint of customers (Tourists). Academic Research International Journal. 2014;5(1).
- Ketabi T. The effect of marketing mix of services to affect customers. Bank case study Tejaral bank. Branches of Kermanashah province. Journal of Basic

- and Applied Scientific Research. 2012; 2(9):8632-8639.
- 26. Arokiasamy A. The effect of marketing mix and customer perception on brand loyalty. Journal of business and management. 2012;4(2):1-110.
- Owomoyela S, Olasunkanmi S, Oyeniyi K. Investigation the impact of marketing mix elements on consumer loyalty: An empirical study on Negerian Breweries PLC. Interdisciplinary Journal of Contemporary Research in Business. 2013;4(11):485-496.
- 28. Nezami A, Karimi F, Aghababa P, Tanhaei M. Studying the impact of services marketing mix on preferring a brand by customers: Case study selected branches of Mellat band in Istahan province. International Journal of Academic Research in Business and Social Sciences. 2013;3(4):151-162.
- Gilanina S, Taleghani M, Azizi N. Investigating effect of marketing mix on the willingness of students to participate in private class. International Journal on Business and Behavioral Sciences. 2013;3(7):59-65.

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