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Market segmentation variables as moderators in the prediction of business tourist retention

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Abstract This study explores whether five market segmentation variables moderate the relationship between the business tourist service quality scorecard (SQSC) and business tourist satisfaction (Satisfaction); or the relationship between the SQSC and business tourist retention (Retention). A cross-sectional field survey of South African business tourists yielded a sample of 498 respondents. Moderated multiple regression (MMR) analyses were used to investigate possible moderating effects. Findings suggest there are full moderation effects for gender in both the relationships between SQSC and Retention as well as Satisfaction and Retention. Partial moderation effects were evident for age and province. This study provides insights to enable business tourist managers to improve the service quality needs of each of the identified market segments, such as gender and age.

Keywords Market segmentation · Business tourist service quality scorecard · Business tourist satisfaction · Business tourist retention · Moderation

1 Introduction

South Africa is the premier business tourism destination in Africa and is amongst the top 15 long-haul business tourism destinations globally (Anon 2013). Service

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G. Roodt Faculty of Management, University of Johannesburg, PO Box 524, Auckland Park, Gauteng, South Africa e-mail: groodt@uj.ac.za excellence is one of the key pillars in the National Tourism Sector Strategy (NTSS) in South Africa (NDT 2011). Therefore, Swart and Roodt (2008, 2009) proposed the development of SQSC in predicting Retention to address tourist satisfaction and the need to create service excellence (Alegre and Garau 2010) in South Africa. Consumer research indicates that service satisfaction mediates the relationship between service quality and customer retention (Dabholkar et al. 2000). This model proved to be a reliable and valid service quality measurement instrument for the business tourism industry (Swart and Roodt 2011a), while partial mediation through satisfaction is also evident (Chang and Polonsky 2012; Swart and Roodt 2011b). An investigation of market segmentation variables have become synonymous in tourism industry related research (Forgas-Coll et al. 2013; Kim et al. 2009a; Li et al. 2013; Rid et al. 2014). However, none of the identified studies indicated a moderating effect in the prediction of Retention through a SQSC. The objective of this paper is to investigate how the inclusion of market segmentation variables in linear relationships may influence the scores on the SQSC and Retention or Satisfaction and Retention. Furthermore, this paper proposes that the assessment of the different SQSC and Satisfaction levels in the prediction of Retention can be investigated in more detail. In this sense, understanding the differences amongst business tourists' profiles, such as the SQSC and its influence on satisfaction, between men and women, the different age groups, levels of education, different ethnic groups and the provinces visited, is fundamental to business tourism managers that aim to foment business tourist retention. This allows for South African business tourism managers to improve on their operational effectiveness and efficiency by addressing the service quality needs of each of the identified market segments. Multiple regression analyses allow for flexibility in the coding of the categorical variables for better differentiation in results of the market segments, which is of importance in this paper. This includes a literature review to support the research methods, results, discussion and conclusion.

2 Theoretical orientation and literature review

Against the background of Fishbein and Ajzen's (1975) Behavioural Intentions Model (Cognition \rightarrow Affect \rightarrow Intention \rightarrow Behaviour), Swart and Roodt (2008, 2009) investigated how scores on a SQSC (cognition) are related to Retention (intention) scores, and how this relationship is meditated by Satisfaction (affect) scores and moderated by market segmentation variables. This resulted in a Business Tourist SQSC Prediction Model (Swart 2013). This paper aims to investigate the moderating relationship of the market segmentation variables between either the SQSC and Retention or Satisfaction and Retention.

According to research done by Ryan and Bonfield (1975), a market segmentation variable is an antecedent variable which has an influence on, but does not explain the relationships between independent (such as the SQSC) and dependent (such as Retention) variables. Furthermore, Chen et al. (2013) state service quality may influence the evaluation of service quality and satisfaction. It also clarifies the influences that precede these relationships. The weightings associated with the

normative and attitudinal components of the model are different across the market segments and, therefore, it is expected that the market segmentation variables, as moderating variables, have an effect on the SQSC (independent variable) and Retention (dependent variable) (Baron and Kenny 1986; Frazier et al. 2004).

Targeting the right customers for a specific customer retention campaign is a high priority (Coussement and Van den Poel 2009). According to Seo et al. (2008), age and gender as market segmentation variables indirectly impact whether a customer will return to an organisation to experience the same product or service. However, they also indicate that more research is needed on other demographics such as education level, and area code (indicating the geographical area or province to which the business tourist travels) to better understand customer retention. Customers' age groups and levels of education contribute to the explanation of their tendency to return to an organisation (Cohen et al. 2007). Although it has been postulated that Satisfaction facilitates Retention at a destination, is it also important to identify which market segmentation variables will moderate the results of the SOSC. Identifying such variables will potentially contribute to a more favourable experience, leading to Retention. Thus for the purpose of this study, market segmentation variables are defined as the division of the business tourism market into smaller groups of delegates according to their gender, age, ethnic group, educational qualifications, province visited, and needs and characteristics when they are exposed to a business tourism product (as informed by George 2011; Moore et al. 2008).

Researchers have found that demographic variables (such as age and gender) play an important role in product adoption behaviours (Im et al. 2003) and in tourism (Han and Ryu 2006; Li et al. 2013). According to Hudson (1999), psychological forces do not operate in isolation. Mediating and moderating effects have been established in hospitality (Ro 2012), but not in a business tourism context before. Baron and Kenny (1986, p. 1181) are of the opinion that appropriate procedures need to be applied to make the most effective use of the moderator and mediator distinction (in the context of a 'wide range of phenomena', which can include attitude and personality traits) in a causal relationship. Moderators and mediators function on three levels, namely from a *conceptual* (explanations for differences in peoples' behaviour), strategic (moderators are introduced when there is an inconsistent relationship between the dependent and independents variables), and statistical (indicates the moderating effect of the dependant variable on the independent variable). Moderators may contain either manipulations or assessments, which can be either personal or situational variables. Thus, a moderator is defined as '... a qualitative (e.g. gender, ethnic group) or quantitative (e.g. level of reward) variable that affects the direction and/or strength of the relationship between an independent or predictor variable and a dependent or criterion variable' (Baron and Kenny 1986, p. 1174). Furthermore, multiple regression can be used to examine whether the effects of the predictor or moderator variables are continuous (e.g. as in the case of age) or categorical (e.g. as in the case of gender or ethnic group) (Frazier et al. 2004).

Service quality has a significant relationship with gender (Lee et al. 2011). However, age does not have a significant effect on the link between customer satisfaction and repeat visit intention (Han and Ryu 2006), while educational qualification has a significant relationship with customer satisfaction and perceived quality (Forgas-Coll et al. 2013; Severt et al. 2007). Againis (2004) further recommend the inclusion of gender and ethnicity as a best practice in the testing of moderation effects. Based on these findings, Chen et al. (2013) and Seo et al. (2008) recommend further research into the moderation effects of market segmentation variables. Supported by literature, specifically Seo et al. (2008), there is a need to further investigate these moderating relationships in the business tourism industry.

Gender, age, ethnic group, educational qualifications and province most frequently visited are identified as market segmentation variables in this study. Research on these variables is reported below.

2.1 Gender

Gender is one of the most popular segmentation strategies used to understand customers' attitudes, behaviours and choices (Crouch et al. 2009; Wakefield and Baker 1998) from a multi-channel context (Lin 2011). Gender is defined as the applicable characteristics, such as attitudes, behaviours, roles and values chosen by the male or female respondent (as informed by George (2011); Palan (2001)). Studies found that gender is a moderator in the relationship between quality and loyalty (Costa et al. 2001, Mittal and Kamakura 2001; Sanchez-Franco et al. 2009), but also between perceived quality and satisfaction (Forgas-Coll et al. 2013) in a service environment. Furthermore, a significant difference in the evaluation of service quality between male and female customers is observed, with female customers showing a tendency to rate service quality lower than males do (Lee et al. 2011; Snipes and Thomson 2006). From a tourism perspective, studies have been conducted on the influence of gender segmentation strategy (Lee et al. 2011); the effects of gender within a restaurant environment (Kim et al. 2009b) and the moderating effect of gender on airline website loyalty formation (Forgas-Coll et al. 2013). According to Kim et al. (2009b), gender is one of the most influential demographic variables associated with consumer purchase behaviour within a tourism-related environment. However, of all the identified studies, only the one conducted by Lee et al. (2011) support the moderating effect of gender and perceived service quality within a tourism environment, where a significant relationship is reported between men's perceptions of service quality and women's perceptions of service quality. All the other studies acknowledge the effect of gender, but only indicate the descriptive statistics. On the basis of the literature referenced it is clear that there is a literature gap regarding the moderating effect of gender in the prediction of tourist retention either via the SQSC or Satisfaction. Based on the above discussion, the following hypothesis is proposed:

H_{1.1} Gender group moderates the relationship between SQSC and Retention.

H_{1.2} Gender group moderates the relationship between Satisfaction and Retention.

2.2 Age

Customers' age usually plays an important role in their choice to return to a specific service provider (Cohen et al. 2007; Crouch et al. 2009; Kim et al. 2009a). Age has been used as a market segmentation variable by 'Dividing a market into different age and lifecycle groups' (George 2011, p. 551). Therefore, age is defined as a generational market segment that represents a group of business tourists of a similar age who were born during the same time in history (as adapted from George 2011, p. 551; Wiersma 2009, p. 240). In a study on the tourism industry, Kim et al. (2009b) report that age is the most influential demographic variable associated with tourist purchase behaviour. It was further found that older tourists tend to show a higher repeat patronage than their younger counterparts (Kim et al. 2009b). Empirical evidence indicates that age is a moderator in the relationship between customer satisfaction and behavioural intention (Homburg and Giering 2001). Han and Ryu (2006) investigate the moderating effect of age in the relationship between tourist satisfaction and tourist repurchase intention, and have found that it is not significant. This finding should be further investigated in a business tourism context. No studies could be found on the moderating effect of age in the prediction of Retention. Based on the literature discussion, there is sufficient theoretical evidence to formulate the hypothesis:

- $H_{2.1}$ Age groups moderate the relationship between SQSC and Retention.
- H_{2.2} Age groups moderate the relationship between Satisfaction and Retention.

2.3 Ethnic group

Many scholars have conducted research on ethnicity in tourism (Ishii 2012; Sabiote et al. 2013), but the moderating effect of ethnicity in the relationships between satisfaction, retention and service quality is limited. There is a close relationship between culture and *ethnic group*, since ethnic group represents the multiple traits of people of which culture can be one. Kong and Jogaratnam (2007, p. 278) state that Different cultures imply different mental programming that governs activities, motivations, and values'. In general nationality has been used to measure ethnicity in customer studies (Tsoukatos and Rand 2007), but only in descriptive statistics to characterise the population. From a tourism perspective, different studies (Hsieh and Tsai 2009; Liu and Jang 2009; Pizam 1999; Sabiote et al. 2013) have identified the influence of ethnicity on satisfaction and intention to return. Results from these studies demonstrated that local residents and tourism employees perceive tourists' behaviour to be affected by their national culture. More specifically the moderating effect of ethnicity on the relationship between satisfaction and perceived quality is significant (Hsieh and Tsai 2009; Sabiote et al. 2013). However, none of the consulted studies indicate the moderating effect of an ethnic group on the relationship between the SQSC and the prediction of Retention. Therefore, the hypothesis below will be tested:

H_{3.1} Ethnic groups moderate the relationship between SQSC and Retention.

H_{3.2} Ethnic groups moderate the relationship between Satisfaction and Retention.

2.4 Educational qualification

The impact of education is one of the most influential demographic variables associated with consumer purchase behaviour within a tourism-related environment (Kim et al. 2009b). Thus, consumers with formal education are likely to be better educated as consumers, and also likely to engage in a detailed information search process before making a purchase decision (Crouch et al. 2009). In tourism research, Forgas-Coll et al. (2013) as well as Pakdil and Aydin (2007) indicate that tourists' education level tends to have a significant influence on their expectations of, and satisfaction with, an airline service. Hye-Rin et al. (2009) and Severt et al. (2007) are of the opinion that there is a significant relationship between educational activities, overall satisfaction, word-of-mouth (WOM) communication, and the intent to return to a specific conference. Therefore, Severt et al. (2007) support the moderating effect of education on satisfaction amongst convention attendees. In the airline industry the moderating effect of education in the relationship between perceived quality and satisfaction is supported (Forgas-Coll et al. 2013). However, none of these studies investigate the moderating effect of *educational qualification* in predicting Retention through the SQSC. This study also aims to address the suggestion made by Seo et al. (2008) to test education as a moderating variable in order to create a better understanding of customer retention, especially in a business tourism context. There is thus sufficient theoretical evidence to formulate the hypothesis below:

 $H_{4.1}$ Educational qualification categories moderate the relationship between SQSC and Retention.

 $H_{4.2}$ Educational qualification categories moderate the relationship between Satisfaction and Retention.

2.5 Province (geographical region) visited

Studies related to a government's geographical area have been done (Ishikawa and Fukushige 2007). Results from the identified studies focus only on local governments and municipalities and not on provinces per se. Furthermore, only the descriptive results and weights allocated in the balanced scorecard (BSC) survey were considered by Chan (2004), while Sullivan and Estes (2007) recommend the modification of the SERVQUAL model, and warn that private-sector models are not designed for public decision-making. It is evident from these studies that information on the application of the BSC, service quality dimensions, customer satisfaction and customer retention is limited within a business tourism context. However, due to the high ranking of some of South Africa's business tourist destinations, such as Gauteng and KwaZulu Natal, it is important to investigate whether a specific province's SQSC has an influence on the prediction of Retention. Hence, to create a better understanding of customer retention, Seo et al. (2008) suggest the investigation of a destination's geographical location as a dimension. Therefore, this study aims to investigate whether province most frequently visited (hereafter mostly referred to a *province*) moderates the relationship between the

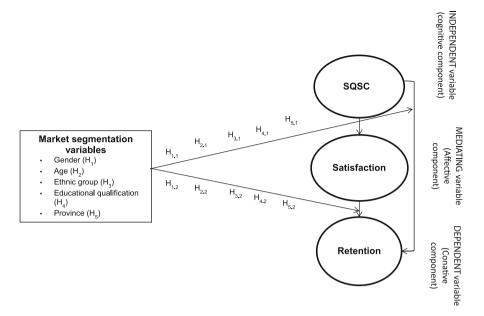


Fig. 1 Theoretical model

SQSC and Satisfaction, as well as between SQSC and Retention in a business tourism context. Thus, the following hypothesis is formulated:

H_{5.1} Provinces visited moderate the relationship between SQSC and Retention.

 $H_{5.2}$ Provinces visited moderate the relationship between Satisfaction and Retention.

Figure 1 is proposed as theoretical model for this study. This model is based on the review of the literature and the relationships between the constructs in the hypotheses with the moderating effects of gender (H₁), age (H₂), ethnic group (H₃), educational qualification (H₄) and province (H₅), as shown below.

3 Method

3.1 Research design

The research design followed in this study will be briefly presented under the next two headings.

3.1.1 Research approach

A quantitative research approach was followed, while primary data was generated through a non-probability, cross-sectional survey on the business tourist population in South Africa. General linear modelling (GLM) techniques were applied in

conducting the data analysis. The relationship between either the SQSC or Retention (first sub-hypothesis) or Satisfaction and Retention (second sub-hypothesis) were investigated to test the moderating effect of the identified market segmentation variables.

3.1.2 Research method

The research method is described under the following four headings:

3.1.2.1 Sampling and participants A purposive, convenience sample of 498 respondents (business tourists) was sampled who were exposed to business tourism products/destinations, such as: game lodges, guest houses, three, four and five star hotels, conference centres as well as airlines. Respondents were represented from different tertiary academic institutions, associations, government and corporate industries. Data was collected between October 2009 and March 2010 in the South African business tourism industry.

3.1.2.2 Measuring instruments Swart and Roodt (2008, 2009) proposed three measurement instruments namely the SQSC, Satisfaction and Retention. The SQSC was compiled by superimposing the SERVQUAL model (Briggs et al. 2007; Burnkrant et al. 1982; Parasuraman et al. 1988) on the BSC (Kaplan and Norton 1992). Measures were taken to ensure that the items were evaluating cognitive aspects of the service quality experience (in terms of the Fishbein and Ajzen (1975) model). Four perspectives were obtained, namely *Financial, Customer Value, Internal Business* and *Innovation and Learning*, and were included in the final SQSC, which consisted of 46 items with an overall Cronbach reliability of .88. A seven-point intensity scale, anchored at extreme ends, was used to measure responses on each item for all three scales.

The *Tourist Satisfaction scale* consisted of 18 items and captures the affective component of the Fishbein and Ajzen (1975) model. These items were represented by five dimensions based on the following theoretical contributions, namely *service satisfaction* (Hutchinson et al. 2009; Pyon et al. 2009), *experience* (Brunner-Sperdin et al. 2012; Kaplan and Norton 2008; Pyon et al. 2009), *WOM communication* (George 2011; Hutchinson et al. 2009; Kaplan and Norton 2001; Kim et al. 2009a, b), *accessibility* (Chi and Qu 2008; Ekiz et al. 2009) and *feelings* (Hosany and Witham 2010; Taplin 2012). This scale yielded a Cronbach Alpha of .94.

For the measurement of *Tourist Retention* (the behavioural intentions in terms of the Fishbein and Ajzen model), four dimensions, namely *repurchase intention* (Dabholkar et al. 2000; Hutchinson et al. 2009; Udo et al. 2010), *loyalty programme* (Ha and Jang 2010; Loureiro and Kastenholz 2010), *intensification* (De Rojas and Camarero 2008) as well as *excitement* (Hosany and Witham 2010; Kim et al. 2010) were used. This construct consisted out of 10 items with a Cronbach reliability of .87.

3.1.2.3 Research procedure Members of the business tourist population who met the sampling criteria were invited to participate in the e-survey received via a link to

an e-invitation letter. Questionnaires were only available in English and also distributed through trained fieldworkers in a field setting.

3.1.2.4 Statistical analysis GLM techniques were applied to analyse the data, after which a Soper interaction was conducted. Multiple regression analyses for categorical moderators are used to investigate a moderating effect (Baron and Kenny 1986; Chou and Yeh 2013; Frazier et al. 2004; Ro 2012). The choice of a moderator as well as the hypothesis of the various interactions is based on the discussed theory. It is known that a moderator explains under what conditions or when X (i.e. the SQSC) causes Y (i.e. Retention) (Aguinis 2004; Ro 2012). Moderators were investigated in an attempt to improve the overall model fit, as the main effects alone may not offer sufficient precision in prediction (Aguinis 2004; Ro 2012). A MMR procedure was conducted, as this inferential procedure compares two different least-square regression equations. This procedure permits the researcher to make extrapolations of whether a moderating effect exists in the population, based on the sample data. A new variable is created when the product between the predictors are included as a third term in the regression (Aguinis 2004; Ro 2012). Calculations were generated by means of International Business Machines Corporation (IBM) Statistical Package for the Social Sciences (SPSS) programme Version 20.0.

4 Results

Ten general hypotheses $(H_{1,1}-H_{5,2})$ were proposed in the literature discussion, to summarise the different relationships in the predictive model (Fig. 1). Two tables, namely the model analysis and model coefficients, are used to explain the results related to each sub-hypothesis. Whether a contribution has been made to the current body of knowledge and whether the research objectives have been achieved will be discussed in a summary. This format will be followed for all the discussions related to this paper.

4.1 Market segmentation variable results related to the first sub-hypothesis

The first sub-hypothesis tests if the market segmentation variables, namely gender, age, ethnic group, education or province, have a moderating effect on the relationship between the SQSC and Retention. Table 1 indicates the variance analyses for all five market segmentation variables.

It is evident from Table 1 that the p value was significant for all five market segmentation variables, which allowed for a continuation of the analysis. Table 2 indicates the model coefficients for all five interaction analyses.

The results in Table 2 supported the presence of a moderating effect for gender as the R^2 contribution of SQSC × gender interaction explained a 1 % variance in the model. The R^2 contribution of SQSC × age 1 explained a 1 % variance in the model. Therefore, the data partially supported H_A, which implies that the

Variable	Sum of squares	df	M^2	F	ρ
Gender					
Regression	264.84	3	88.28	149.37	≤.001
Residual	288.43	488	.60		
Total	553.27	491			
Age					
Regression	257.26	5	51.45	86.24	≤.001
Residual	283.94	476	.60		
Total	541.20	481			
Ethnic					
Regression	257.19	3	85.73	143.10	≤.001
Residual	289.36	483	.60		
Total	546.54	486			
Education					
Regression	263.88	5	52.78	88.85	≤.001
Residual	286.31	482	.60		
Total	550.20	487			
Province					
Regression	264.86	7	37.84	65.40	≤.001
Residual	278.26	481	.58		
Total	543.12	488			

Table 1 Model analysis of variance of market segmentation variables for SQSC in relation to retention

Dependent variable: Retention

df degrees of freedom, M^2 mean square, *F F* ratio indicates the most variability between groups, ρ probability value, *Ethnic* ethnic group, *Education* the Level of Education

moderating effect of age 1 (*Z*) caused a change in the slope of the regression of Retention (*Y*) on SQSC (*X*), while the additional product term ($X \times Y$) improved the fit of the model on the prediction of Retention (*Y*).

The equation for gender and age were as follows:

Retention =
$$5.16 + .94$$
SQSC + .02 gender - .22(SQSC × gender)
Retention = $5.23 + .78$ SQSC - .14 age 1 + .22(SQSC × age 1)

Another criterion across the moderator-based sub-groups was that the slopes had to differ across the different groups, for example the gender groups. Thus, the larger the difference in the slopes, the stronger the moderation. Table 3 gives the different slope values of the male and female groups as well as for the different age groups.

The results depicted in Table 3, indicate that the intercepts of the male (5.16) and female (5.18) groups were relatively close to one another. Furthermore, the simple slope of the male group (.94) was different to that of the female group (.07), while the difference in the slope of the male group (18.14) was larger than that of the female group (10.88). These results further support the strong moderation effect of gender in the relationship between the SQSC and Retention ($H_{1,1}$). Furthermore, the

Variable	Predictor variables	R	R^2	ΔR^2	R^2 contribution	Unstandardised coefficients	sed	t	φ	95 % confidence intervals	ce intervals
						В	SEB			Lower bound	Upper bound
Gender	Constant					5.16	.04	119.38	≤.001	5.08	5.24
	SQSC					.94	.05	18.14	≤.001	.84	1.04
	Gender (Male)					.02	.07	.33	.74	12	.17
	SQSC × gender	69.	.48	.48	.01	22	.08	-2.56	.01	38	05
Age	Constant					5.23	.05	103.15	$\leq .001$	5.13	5.33
	sqsc					.78	.06	13.08	$\leq .001$	99.	06.
	Age 1 (<30 years					14	60.	-1.51	.13	32	.04
	Age 2 (31–45 years)					12	.08	-1.41	.16	28	.06
	SQSC × age 1					.022	.12	1.94	.05	$\leq .003$.45
	$SQSC \times age 2$	69.	.48	.47	.01	.13	.10	1.36	.17	06	.32
Ethnic	Constant					5.17	.06	89.60	$\leq .001$	5.06	5.28
	SQSC					.91	.07	12.10	$\leq .001$.76	1.05
	Ethnic group (African and Asian)					01	.07	18	.86	16	.13
	$SQSC \times ethnic$	69.	.47	.47	.001	07	60.	81	.41	25	.10
Education	Constant					5.17	.05	105.68	$\leq .001$	5.08	5.27
	SQSC					80.	.06	15.49	$\leq .001$.78	1.01
	Educational qualification 1 (Post degree)					08	.08	-1.03	.30	22	.07
	Educational qualification 2 (1st degree)					.11	.11	.93	.35	12	.33
	SQSC × educational qualification 1					002	.10	02	96.	18	.18
	$SQSC \times educational qualification 2$	69.	.48	.47	.002	17	.12	-14	.15	- 40	.06

Variable	Variable Predictor variables	R	R^2	ΔR^2	$R = R^2 = \Delta R^2 = R^2$ contribution Unstandardised coefficients	Unstandardi coefficients	sed	t	φ	95 % confidence intervals	e intervals
						В	SEB			Lower bound Upper bound	Upper bound
Province	Province Constant					5.24	.05	96.02	≤.001	5.13	5.35
	sQSC					.80	.07	12.32	$\leq .001$.68	.93
	Province 1 (Gauteng)					13	.10	-1.38	.17	32	.06
	Province 2 (KwaZulu-Natal)					20	60.	-2.22	.03	38	02
	Province 3 (Western Cape)					09	.10	89	.38	28	.11
	$SQSC \times province 1$.12	.11	1.07	.28	-1.00	.33
	$SQSC \times province 2$					01	.11	05	96.	22	.21
	$SQSC \times province 3$.70	.49	.48	.004	.20	.12	1.59	.11	05	44.
All regress	All regression coefficients are significant at the $p \leq .001$ level	.001 lev	el								
Dependent	Dependent variable: Retention; Predictors: (Constant), SQSC), sqsc	•								

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B unstandardised coefficient and constant for linear regression equation, β the standard regression coefficient, SEB standard error of B, ρ probability value, R correlation coefficient, R^2 coefficient of determination, ΔR^2 adjusted coefficient of determination, *Ethnic* ethnic group, *Education* the Level of Education

Table 2 continued

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Moderator category code	Simple slope	Intercept	SEB of simple slope	df	t	ρ of simple slope (2-tailed)	ρ of simple slope (1-tailed)	95 % C around the simp slope	
								Lower bound	Upper bound
Gender									
Male	.94	5.16	.05	488	18.14	≤.01	$\leq .01$.84	1.04
Female	.07	5.18	.07	488	10.88	≤.01	≤.01	.59	.86
Age									
31-45 years	.78	5.23	.06	476	13.08	≤.01	≤.01	.66	.90
30 years and younger	1.00	5.09	.10	476	10.18	≤.01	≤.01	.81	1.20

 Table 3
 Interaction of the SQSC with the male and female groups as well as for the different age groups in relation to Retention

SEB standard error of B, df degrees of freedom, t coefficient of the slope, ρ probability value

simple slope of the 30 years and younger group (1.00) was slightly stronger than that of the 31–45 years group (.78). The intercept of the 30 years and younger group (5.09) was slightly weaker than that of the 31–45 years group (5.23), which supported the partial moderating effect of age on the relationship between the SQSC and Retention ($H_{2.1}$). Model coefficients for SQSC, ethnic group ($H_{3.1}$), educational qualification ($H_{4.1}$) or province ($H_{5.1}$), and interaction analysis in relation to Retention did not support the presence of a moderating effect.

4.2 Market segmentation variable results related to the second sub-hypothesis

The second sub-hypothesis tests if the five market segmentation variables have a moderating effect on the relationship between the Satisfaction and Retention. Table 4 indicates the variance analyses for all five market segmentation variables.

It is evident from Table 4 that the p value was significant for all five market segmentation variables, which allowed for a continuation of the analysis. Table 5 indicates the model coefficients for all five interaction analyses.

Results depicted in Table 5 indicate the model coefficients for Satisfaction, gender, Satisfaction × gender, age, Satisfaction × age 1, Satisfaction × age 2, province and Satisfaction × province 3 in relation to Retention indicated the presence of a moderating effect. The R^2 contribution of Satisfaction × gender and Satisfaction × province 3 interactions explained 1 % variance in the model, while the R^2 contribution of Satisfaction × age explained 2 % variance in the model. Satisfaction × gender, Satisfaction × age 1, Satisfaction × age 2 and Satisfaction × province 3 (interaction terms) had a ρ value of less than .05, indicating a statistically significant interaction. The data therefore supported H_A, which implies that the moderating effect of the market segmentation variables (gender, age or province) (Z) cause a change in the slope of the regression of Retention (Y) on Satisfaction (X), while the additional product term (X × Y) improves the fit of the model on the prediction of Retention (Y).

Variables	Sum of squares	df	M^2	F	ρ
Gender					
Regression	251.27	3	83.76	135.35	≤.001
Residual	302.00	488	.62		
Total	553.27	491			
Age					
Regression	256.09	5	51.21	85.51	≤.001
Residual	285.11	476	.60		
Total	541.20	481			
Ethnic					
Regression	245.98	3	81.99	131.76	≤.001
Residual	300.57	483	.62		
Total	546.54	486			
Education					
Regression	250.72	5	50.14	80.71	≤.001
Residual	299.48	482	.62		
Total	550.20	487			
Province					
Regression	265.11	7	37.87	65.53	≤.001
Residual	278.01	481	.58		
Total	543.12	488			

 Table 4
 Model analysis of variance of market segmentation variables for satisfaction in relation to retention

Dependent variable: Retention

df degrees of freedom, M^2 mean square, *F F* ratio indicates the most variability between groups, ρ probability value, *Ethnic* ethnic group, *Education* the Level of Education

The equations were as follows:

Retention = 5.18 + .82 Satisfaction - .03 gender - .19(Satisfaction × gender) Retention = 5.25 + .62 Satisfaction - .07 age 1 + .29(Satisfaction × age 1) Retention = 5.25 + .62 Satisfaction - .24 age 2 + .27(Satisfaction × age 2) Retention = 5.27 + .68 Satisfaction - .07 province 3 + .22(Satisfaction × province 3)

Across the moderator-based sub-groups the slopes had to differ across the different groups, for example the gender groups. Thus, the larger the difference in the slopes, the stronger the moderation as mentioned before. Table 6 gives the different slope values of the gender, age and province groups.

From Table 6, it is evident that the intercepts of the male (5.18) and female (5.15) groups were relatively close to one another. Furthermore, the simple slope for the male group (.82) was different to that of the female group (.63), while the difference in the slope for the male group (17.62) was larger than that of the female group (9.70). These results further supported the strong moderation effect of gender

Variable Predictor variables Gender Constant Satisfaction Gender (Male) SAT × gender Age Constant Age 1 (<30 years) Age 1 (<30 years) Age 2 (31–45 years) SAT × age 1 SAT × age 1											
ler ic ation		R	R^2	ΔR^2	R^2 contribution	Unstandardis	Unstandardised coefficients	t	θ	95 % confi	95 % confidence intervals
ler ic ation						В	SEB			Lower bound	Upper bound
ic						5.18	.04	117.32	≤.001	5.10	5.27
ic						.82	.05	17.64	$\leq .001$.73	.91
ic ation						03	.07	46	.65	18	.11
ż		.67	.45	.45	.01	19	.08	-2.36	.02	34	03
ion						5.25	.05	103.18	$\leq .001$	5.15	5.35
ion						.62	.06	11.32	$\leq .001$.51	.72
ion						07	60.	77	44.	25	.11
ion						24	.08	-2.88	.004	40	08
ion						.29	.10	2.96	.003	.10	.49
ion		69.	.47	.47	.02	.27	.10	3.07	.002	.10	4.
						5.22	.06	76.93	$\leq .001$	5.11	5.34
						.82	.07	12.23	$\leq .001$	69.	.95
	an and Asian)					10	.07	-1.31	.19	24	.05
		.67	.45	.45	.002	11	.08	-1.32	.19	27	.05
Satisfaction Educational qualificat						5.16	.05	103.10	$\leq .001$	5.07	5.26
Educational qualificat						LL.	.05	14.43	$\leq .001$.67	88.
	ation 1 (Post degree)					05	.08	66	.51	20	.10
Educational qualification 2 (1st degree)	ation 2 (1st degree)					.10	.12	.88	.38	13	.33
SAT × educational qualification	qualification 1					.03	.10	.31	.75	14	.19
SAT × educational qualification 2	qualification 2	.68	.46	.45	.003	15	.11	-1.36	.18	36	.07

Table 5 continued	ontinued										
Variable	Variable Predictor variables	R	R^2 ,	ΔR^2	$\Delta R^2 R^2$ contribution Unstandardised coefficients t	Unstandardis	ed coefficients	t	φ	95 % confic	95 % confidence intervals
						В	SEB			Lower bound	Upper bound
Province	Province Constant					5.27	.05	96.12	≤.001	5.16	5.38
	Satisfaction					.68	.06	12.21	$\leq .001$.57	.79
	Province 1 (Gauteng)					17	.10	-1.70	60.	36	.03
	Province 2 (KwaZulu-Natal)					33	60.	-3.61	$\leq .001$	51	15
	Province 3 (Western Cape)					07	.10	73	.47	26	.12
	$SAT \times province 1$.17	.10	1.78	.08	02	.36
	$SAT \times province 2$.12	.10	1.13	.26	-00	.31
	$SAT \times province 3$.70	.49	.48	.01	.22	11.	2.04	.04	.01	.43
All regress	All regression coefficients are significant at the $p \leq .001$ level	01 leve									
" Depende	" Dependent variable: Retention										
Predictors:	Predictors: (Constant), Satisfaction										

B unstandardised coefficient and constant for linear regression equation, β the standard regression coefficient, *SEB* standard error of *B*, ρ probability value, *R* correlation coefficient, *R*² coefficient of determination, ΔR^2 adjusted coefficient of determination, *SAT* satisfaction, *Ethnic* ethnic group, *Education* the Level of Education

Moderator category code	Simple slope	Intercept	SEB of simple slope	df	t	ρ of simple slope	ρ of simple slope	95 % C around simple	the
						(2-tailed)	(1-tailed)	Lower bound	Upper bound
Gender									
Male	.82	5.18	.05	488	17.62	≤.01	≤.01	.73	.91
Female	.63	5.15	.06	488	9.70	≤.01	≤.01	.50	.76
Age									
31-45 years	.62	5.25	.05	476	11.32	≤.01	≤.01	.51	.72
30 years and younger	.91	5.18	.08	476	10.96	≤.01	≤.01	.75	1.07
Province									
Gauteng	.68	5.27	.06	481	12.21	≤.01	≤.01	.57	.79
KwaZulu Natal	.85	5.10	.08	481	10.72	≤.01	≤.01	.69	1.01
Western Cape	.79	4.94	.09	481	9.29	≤.01	≤.01	.62	.96

 Table 6
 Interaction of Satisfaction with the male and female groups as well as for the different age groups in relation to Retention

SEB standard error of B, df degrees of freedom, t coefficient of the slope, ρ probability value

in the relationship between Satisfaction and Retention $(H_{1.2})$. The simple slope of the 30 years and younger group (.91) was different to that of the 31–45 years group (.62). The intercept of the 30 years and younger group (5.18) was slightly weaker than that of the 31–45 year group (5.25). These results partially supported the moderation effect of age in the relationship between Satisfaction and Retention $(H_{2.2})$. The simple slopes were different for Gauteng (.68), Western Cape (.79), and KwaZulu-Natal (.85). The intercept was the weakest for the Western Cape at 4.94, followed by KwaZulu-Natal (5.10), while the strongest was for Gauteng (5.27). These results support the moderation effect of province in the relationship between Satisfaction and Retention $(H_{5.2})$. Model coefficients for Satisfaction, ethnic group $(H_{3.2})$, educational qualification $(H_{4.2})$, and interaction analyses in relation to Retention did not support the moderating effect.

5 Discussion

The objective of the study was to explore whether the relationship between two quantitative variables, i.e. SQSC and Retention, changes based on the value of a discrete grouping variable, such as the market segmentation variables, to improve the overall model fit. Model analyses of variance of all five market segmentation variables for the SQSC in relation to Retention (Table 1) as well as for Satisfaction in relation to Retention (Table 2) had significant values. The model was tested to verify the hypotheses relating to identified variables (Tables 2, 5). The results aim to

advise business tourist managers on whether market segmentation variables can assist in the identification of the specific retention needs of business tourists.

Empirical verification of H₁ reveals that the effect of gender on the relationship between the SQSC and Satisfaction as well as between Satisfaction and Retention is significant (Tables 2, 5). Thus, gender is a moderator in determining a business tourist's post-purchase behaviour, as was evident in a general consumer behaviour study by Wakefield and Baker (1998). The findings are in line with previous studies done in the tourism industry, where Lee et al. (2011) indicated the moderating effect of gender on service quality (now the SQSC) within a tourism environment. Furthermore, the moderating effect of gender in the relationship between perceived quality (now SOSC) and satisfaction (Forgas-Coll et al. 2013) is also supported. Therefore, this study makes a unique contribution by proposing that a gender effect is now also evident amongst business tourists. The interaction of the SOSC with the different gender groups in relation to Retention indicated that the female group's SQSC was lower than that of the male group, which supports the findings of Lee et al. (2011) as well as Snipes and Thomson (2006) (Table 3). Men tend to be selective in the way they process information and are less concerned with detail, while females are most likely to be more expressive and intuitive, focus on relationships and are sensitive towards their feelings for others. If any of these psychological aspects are jeopardised, the relationship between the SQSC and Retention becomes lower. The same results were evident in the relationship between Satisfaction and Retention, where the female group's Satisfaction was lower that than of the male group (Lee et al. 2011; Snipes and Thomson 2006) (Table 6). Women are probably more skilful in sending non-verbal messages and if they are dissatisfied with the service delivery in a business tourism environment they will hardly return to have the same experience. Possible reasons for these results are that women have higher service quality and satisfaction requirements before they will return to a specific business tourist destination, than men are, particularly in a context like that of South Africa, where the study was undertaken. This contribution offers new results to the literature on gender as a moderator of the SQSC Prediction Model. These results imply that the relationship between the SQSC and Retention is not only important in the measurement of service quality (through the SQSC), but also that it is critical to accommodate the different genders in this assessment.

Empirical verification of H_2 shows that that age partially moderator in the relationship between Satisfaction and Retention (Table 5), which is in line with the research done by Homburg and Giering (2001). Consequently, and contrary to the research done by Han and Ryu (2006), this study does not support their findings which indicate an insignificant moderating effect of age in the relationship between tourist satisfaction and tourist repurchase intention. The partial moderating effect of age was also confirmed for the relationship between the SQSC and Retention (Table 5). The interaction of the SQSC with the different age groups in relation to Retention indicated that the group of 30 years and younger has a higher Retention of Satisfaction with the different age groups in Retention indicated that the 30 years and younger group has a higher Retention score than the 31–45 years group (Table 6). A possible reason for these results is that the 30 years and younger group

have not had as much exposure to business travel as the 31–45 years group and therefore have a limited frame of reference in the assessment of service quality and satisfaction needs in their decision to return to a destination. Another reason is that the group of 30 years are less sceptical and independent than the 31–45 years group. These results further imply that the younger group has a higher Retention score than the older group, which does not support the finding by Kim et al. (2009b). A unique contribution is made by confirming the partial moderating effect of age in the relationship with Satisfaction and Retention.

Empirical verification of H_3 reveals that different ethnic groups do not moderate the relationship between the SQSC and Retention (Table 2), or the relationship between Satisfaction and Retention (Table 5). There is thus no empirical support for the proposed moderating effect. These results are in contrast with finding by Hsieh and Tsai (2009) as well as Sabiote et al. (2013), where the moderating effect of ethnicity on the relationship between satisfaction and perceived quality is supported. This might be the reason why literature mostly reported the on the descriptive statistics related to ethnic groups. It can be argued that most ethnic groups have the same service quality expectations with regards to business tourism and therefore have the same behaviour. These results provide evidence that ethnic group is not a moderator of the Business Tourist SQSC Prediction Model and make a contribution to the literature on ethnic groups.

Empirical verification of H_4 shows that results from this study are not in line with previous tourism research which found that a tourist's education level tends to have a significant influence on that customer's expectations and satisfaction (Forgas-Coll et al. 2013; Pakdil and Aydin 2007) (Table 5). No empirical support for the moderating effect for the relationship between the SQSC and Retention is evident (Table 2). It is also not possible to confirm the results from Severt et al. (2007) on the moderating effect of education on satisfaction amongst convention attendees. This may be because business tourists have the same service quality and satisfaction behaviour to justify the return to a business tourist destination. Evidence is provided that educational qualification does not moderate the relationship between the SQSC and Retention, or the relationship between Satisfaction and Retention, which make a contribution the body of knowledge.

Turing to the final market segmentation variable, namely province, the findings address the suggestion by Seo et al. (2008) to investigate a destination's area code as a variable in order to create a better understanding of customer retention. Empirical verification of H_5 reveals a partial moderating effect of province on the relationship between Satisfaction and Retention (Table 5), but does not support a moderating effect in the relationship between the SQSC and Retention (Table 2). A possible reason for the results is that business tourists are more satisfied with their service experiences in Gauteng and KwaZulu-Natal than in the Western Cape (Table 6). Of particular note is the contribution made by the partial moderating effect of frequency of the province most visited on the relationship between Satisfaction and Retention. Another contribution to the literature is that business tourists visiting Gauteng and KwaZulu-Natal have a higher Retention score than those visiting the Western Cape (Table 6). It can be assumed that the business tourism products in Gauteng and KwaZulu-Natal satisfy the service quality needs of the business

tourists more than the products in the Western Cape. Based on the discussions, it can be observed that hypotheses H_1 , H_2 and $H_{5.2}$ are supported, because these moderating relationships are significant.

By knowing the value of the moderated market segmentation variables (gender, age, and province visited), business tourist practitioners can focus solely on these variables in the planning, execution, and assessment of their business tourist-related activities. This means that the other non-moderating market segmentation variables (ethnic group and educational qualification) need not be addressed or catered for as service quality requirements for business tourists. By focusing on these findings, practitioners can develop and enhance satisfaction, and thereby establish and maintain the long-term retention and competitiveness of a business tourist destination, such as South Africa.

This study should help these practitioners to understand the inter-relationship between the SQSC and Satisfaction as the mechanism for enhancing Retention of business tourists. While the context of the study is limited to the business tourism industry, the results generally reinforce previous research on general customers and tourists, with reference to gender and age. The indicators that determine the different market segment needs of business tourists assist practitioners in understanding the service quality expectations of business tourists, which no other studies in a business tourist context have reported before. This study can be useful for business tourism managers wishing to produce demand focused theory relating to a specific country's demographics for a better competitive advantage in the business tourism market.

Although the study provides insights into the impact of using the SQSC, Satisfaction, and Retention to maximise business tourist behaviour in the business tourism industry, there are several possible limitations to the study. These include the use of cross-sectional data, and that the data were obtained from a single type of respondent, namely business tourists. Thus, any generalisations to other types of tourism sectors should be done with caution. Furthermore, 87 % of the respondents who participated in this study were local business tourists, and only 13 % were business tourists from abroad. The international business tourist portion was too small for a reliable interpretation of the information related to the number of times they had travelled to South Africa, the country they represented, as well as the number of days they spent in South Africa.

Five market segmentation variables were identified, of which gender was the only variable that fully moderated the relationship between the SQSC and Retention, and between Satisfaction and Retention. This finding may further encourage practitioners to focus on the specific needs of men and women at a business tourist destination. Future research may also explore the moderating effect of these market segmentation variables in a leisure setting or at an international event.

This study set out to determine whether market segmentation variables have a moderation effect on the prediction model in the prediction of tourist retention. A cross-sectional survey of South African business tourists yielded close to 500 usable data sets by respondents. Multi-variate statistical techniques confirmed that gender,

age and province visited moderate the prediction model. The study objectives are hereby achieved.

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