

Data Dictionary



1.

Engaged and satisfied employees intend to stay

2.

Focus on learning development to reduce voluntary turnover

3

Customer experiencedrives the
RevPAR Index

4.

Trim survey to focus on **key metrics**

Recommendations

Turnover and Revenue are largely driven by

EMPLOYEE ENGAGEMENT

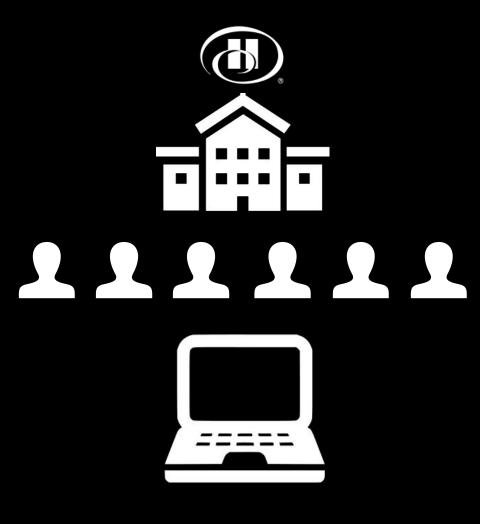
&

PAY SATISFACTION

Focus on improvements in:

- LEARNING DEVELOPMENT
- WORK ENVIRONMENT
- TREATMENT + RESPECT
- BENEFITS





Why HR Analytics Matter?

"Bringing agility to HR"

Think in an era of constant upgrades

Decrease employee turnover BUT in the least expensive way...

Highly engaged employees outperform less-engaged employees

Mission: To be the most hospitable company in the world – by creating heartfelt experiences for **Guests**, meaningful opportunities for **Team Members**, high value for **Owners** and a positive impact in our **Communities**.

ALL ABOUT PEOPLE







Methods and Tools



Cluster Analysis

Group employees by perception



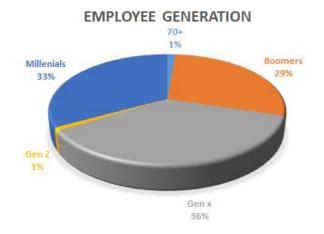
Overview of Hilton Employees

 Employee Generation and Tenure structure

Commitment + Intent to Stay

Cluster analysis results

Employee Generation and Tenure structure





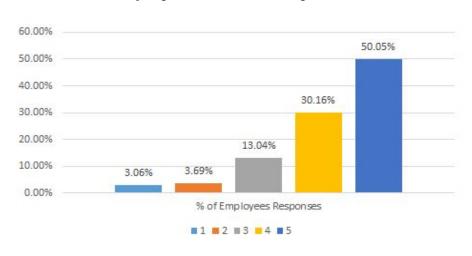
	Millennials	Gen X	Boomers
Less than 12 mo.	32.4%	11.2%	6.4%
1-2 years	17.8%	9.1%	4.0%
2-5 years	20.0%	14.2%	8.0%
5-10 years	13.1%	22.8%	17 .6%
10 years or more	6.0%	32.0%	58.0%

Commitment + Intent to Stay

Commitment by Pay Satisfaction



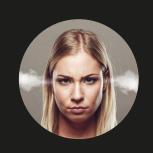
Employee Intent to Stay Scores



Employee Clusters





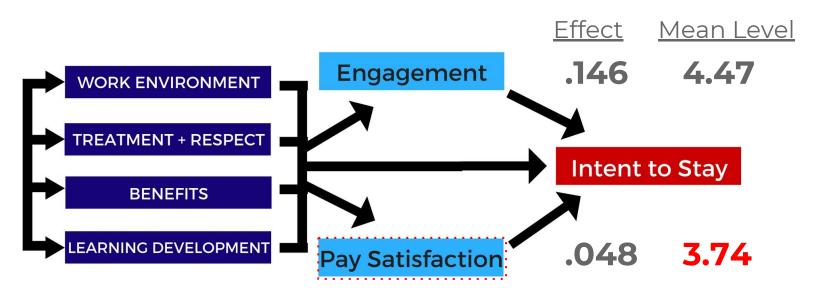


Engagement	4.92	4.41	
Learning Development	4.71	3.82	
Work Environment	4.84	4.1	
Benefits	4.81	4.13	
Pay Satisfaction	5	3	
Treatment Respect	4.85	4.07	
Cluster Membership (%)	39%	43%	

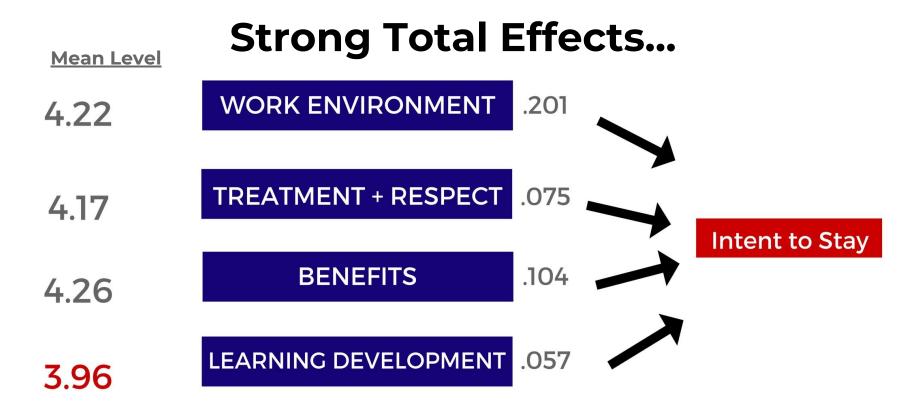




Focus on Pay Satisfaction



But Pay Satisfaction shows more room to move



...with most room to move in learning development

Voluntary Turnover

Reduced through Pay Satisfaction & Learning Development

Estimated voluntary turnover costs range:

\$88.8M to \$133M (sample)

- Overall Voluntary turnover: 8,880 from hotel data
- Cost per employee range: \$10,000 to \$15,000

\$387M to \$580M (global)

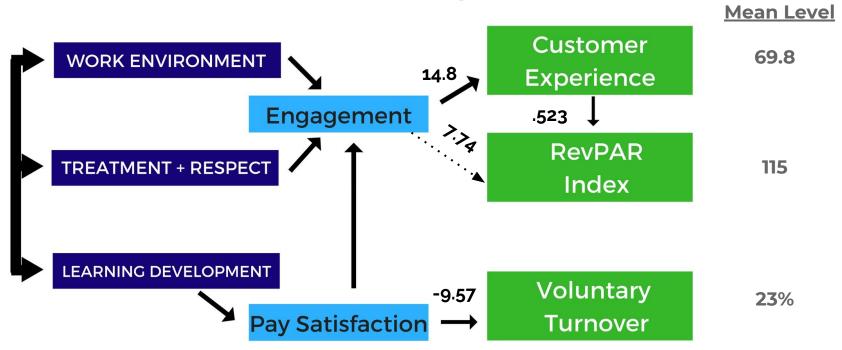
Based on 169,000 employees worldwide & average voluntary turnover

Current Average Voluntary Turnover:

Revenue Per Available Room Index

- Improving revpar through customer experience
- Customer experience is largely driven by engagement
- Engagement can be greatly impacted by work environment

Engagement drives <u>Customer Experience</u>... ... which drives <u>Revenue per Available Room</u>



Pay Satisfaction drives Voluntary Turnover

1% decrease in voluntary turnover can save \$16.9M to \$25.4M



Total Effects

	Customer Experience	RevPAR \ Index	Voluntary Turnover
WORK ENVIRONMENT	8.26	4.32	-
TREATMENT + RESPECT	1.73	.907	-
LEARNING DEVELOPMENT	.723	.378	-9.09

Work Environment drives RevPAR

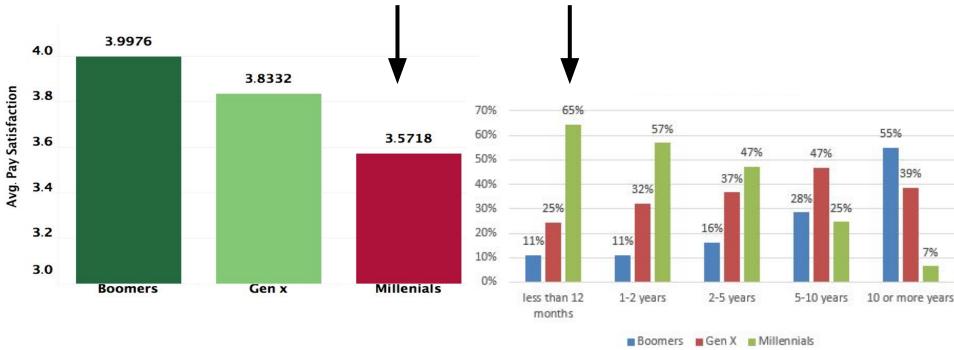
Learning Development impacts Voluntary Turnover

Focus on Millennials

- Millenials are the age group born between 1980 1994.
- Lower pay satisfaction than Baby Boomers + Gen X.
- Pay satisfaction impacts voluntary turnover, engagement, and intent to stay.



Millennials show lowest Pay Satisfaction... But also lowest Tenure



Key Trend: Learning Development = Important for Millennials



Condense overlapping questions:

JobSatisfaction: I'm satisfied with my hotel/property as a place to work.

Engagement1: My hotel/property is a great place to work.

WorkFamilyBalance4: Flexibility in work hours

TreatmentRespect6: I have the job flexibility I need to meet the needs of my work role and my personal life.

Focus on key metrics:

Reduce questions for non-key variables

Focus on those with predictive power:

- Learning Development
- Benefits
- Treatment Respect
- Work Environment

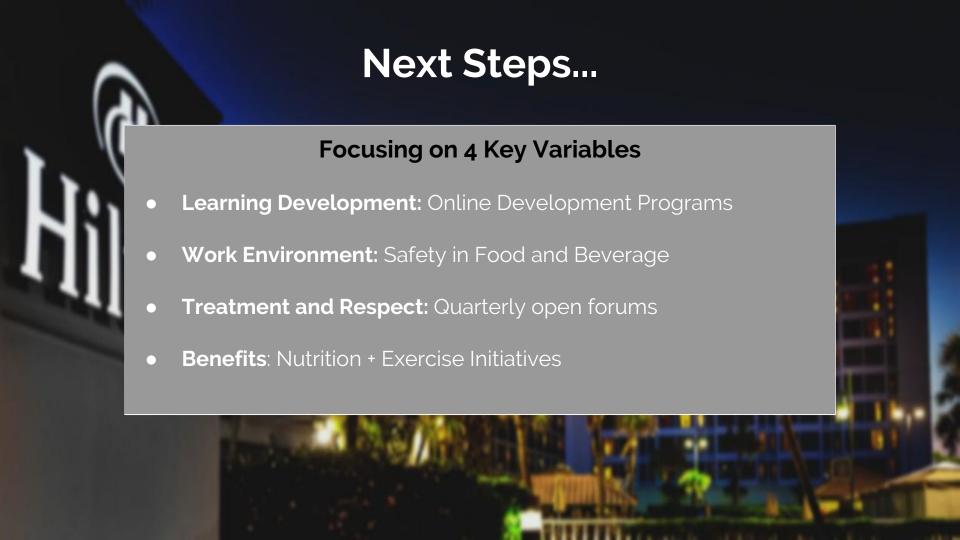


Limitations

1. Small sample size for Hotel level data

2. Missing data

3. Limited data for Gen Z and 70 +





APPENDIX SLIDES

Total Effects	Group	number	1 -	Default	model)

	TreatmentRespect_1	WorkEnvironment_1 I	_earningDevelopment_1	Benefits_1 E	ngagement_1 P	aySatisfaction
Engagement_1	.096	.472	.041	.086	.000	.000
PaySatisfaction	.182	.153	.249	.456	.115	.000
IntentToStayHiltonHI	.075	.201	.057	.104	.152	.048

Standardized Total Effects (Group number 1 - Default model)

	TreatmentRespect_1	WorkEnvironment_1	LearningDevelopment_1	Benefits_1	Engagement_1	PaySatisfaction
Engagement_1	.124	.551	.056	.100	.000	.000
PaySatisfaction	.131	.099	.189	.294	.064	.000
IntentToStayHiltonHI	.136	.324	.109	.167	.211	.120

Direct Effects (Group number 1 - Default model)

	TreatmentRespect_1	WorkEnvironment_1	LearningDevelopment_1	Benefits_1	Engagement_1	PaySatisfaction
Engagement_1	.096	.472	.041	.086	.000	.000
PaySatisfaction	.171	.099	.245	.446	.115	.000
IntentToStayHiltonHI	.053	.124	.039	.069	.146	.048

Standardized Direct Effects (Group number 1 - Default model)

	TreatmentRespect_1	WorkEnvironment_1	LearningDevelopment_1	Benefits_1	Engagement_1	PaySatisfaction
Engagement_1	.124	.551	.056	.100	.000	.000
PaySatisfaction	.123	.064	.186	.287	.064	.000
IntentToStayHiltonHL	.095	.201	.075	.112	.203	.120

Indirect Effects (Group number 1 - Default model)

	TreatmentRespect_1	WorkEnvironment_1	LearningDevelopment_1	Benefits_1	Engagement_1	PaySatisfaction
Engagement_1	.000	.000	.000	.000	.000	.000
PaySatisfaction	.011	.054	.005	.010	.000	.000
IntentToStayHiltonHI	.023	.076	.018	.034	.006	.000

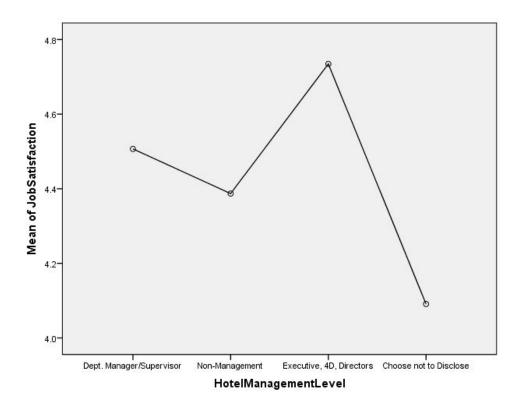
Mean plot of hotel managements levels and job satisfaction

	Fully	Somewhat/ Not			
Departments	Committed	Committed	Difference	% of Workforce	# of Workers
Human Resources	72.00%	28.00%	44.01%	0.84%	1,073
Executive Office	67.04%	32.96%	34.09%	1.11%	1,427
Departments	55.18%	44.82%	10.37%	1.79%	2,315
Laundry	54.55%	45.45%	9.10%	2.79%	3,600
Housekeeping	53.25%	46.75%	6.49%	24.35%	31,258
General Administration/IT	53.15%	46.85%	6.30%	0.46%	587
Purchasing	53.03%	46.97%	6.06%	0.87%	1,121
Guest Activities	52.71%	47.29%	5.42%	0.57%	736
Food & Beverage	51.12%	48.88%	2.25%	23.07%	29,674
Property Operations/Engineering	50.17%	49.83%	0.34%	4.91%	6,311
Room Reservations	50.15%	49.85%	0.29%	0.81%	1,032
Spa/Health Club	49.77%	50.23%	-0.46%	1.36%	1,767
Guest Services	48.85%	51.15%	-2.29%	3.95%	5,087
Kitchen	48.17%	51.83%	-3.66%	11.61%	15,027
Telecommunications/PBX	47.63%	52.37%	-4.74%	0.96%	1,237
Cashiers	46.71%	53.29%	-6.58%	0.38%	494
Golf	45.35%	54.65%	-9.31%	0.59%	759
Front Office Opeations	45.34%	54.66%	-9.32%	6.94%	8,956
Finance	44.99%	55.01%	-10.03%	2.70%	3,511
Catering	44.18%	55.82%	-11.64%	1.39%	1,774
Security	41.55%	58.45%	-16.89%	3.03%	3,882
Meetings & Conventions	41.34%	58.66%	-17.32%	1.42%	1,829
Casino	40.76%	59.24%	-18.48%	1.10%	1,416
Sales/Marketing	39.57%	60.43%	-20.87%	3.01%	3,856
Grand Total	50.05%	49.95%	0.10%	100%	128,729

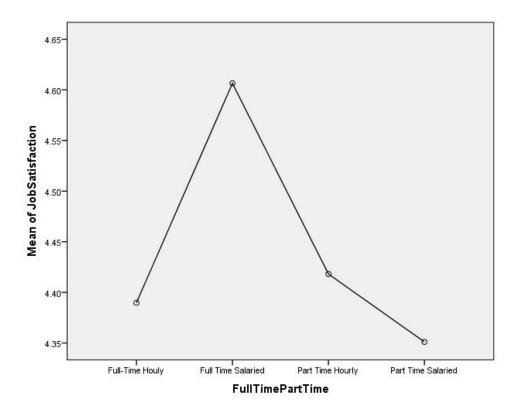
Heat map of commitment level with varying departments

Departments	Difficult Job Market	Interesting/ Challenging Work	My Manager	Opportunities to Grow Career	Proud to be part of the Hilton Brand	Relationships W. Customers	The People I Work With	Work Schedule Flexibility	% of Work Force	# of Employees
Housekeeping	2.91%	3.61%	6.16%	9.57%	42.70%	6.86%	16.20%	11.98%	24.28%	31,258
Food & Beverage	4.26%	3.28%	6.05%	9.81%	32.92%	9.48%	15.33%	18.89%	23.05%	29,674
Kitchen	3.96%	5.32%	6.49%	15.99%	37.46%	2.42%	16.02%	12.34%	11.67%	15,027
Front Office Opeations	8.30%	3.65%	7.73%	18.33%	22.31%	7.80%	20.46%	11.42%	6.96%	8,956
Property Operations/Engineering	4.31%	11.74%	8.38%	12.49%	30.53%	3.34%	20.06%	9.14%	4.90%	6,311
Guest Services	5.68%	3.85%	5.31%	6.74%	28.52%	14.98%	21.07%	13.84%	3.95%	5,087
Security	9.12%	8.04%	9.43%	10.25%	29.65%	5.62%	15.17%	12.73%	3.02%	3,882
Sales/Marketing	3.48%	9.96%	8.71%	15.30%	22.07%	6.69%	24.07%	9.73%	3.00%	3,856
Laundry	2.39%	4.53%	4.36%	9.69%	48.08%	3.75%	14.53%	12.67%	2.80%	3,600
Finance	8.17%	8.63%	5.18%	15.72%	27.49%	2.02%	15.29%	17.49%	2.73%	3,511
Departments	4.06%	4.15%	7.90%	17.49%	35.72%	7.21%	14.30%	9.16%	1.80%	2,315
Meetings & Conventions	5.14%	6.89%	3.34%	15.58%	34.94%	4.21%	23.67%	6.23%	1.42%	1,829
Catering	2.25%	7.50%	4.74%	17.64%	24.80%	4.28%	27.79%	10.99%	1.38%	1,774
Spa/Health Club	3.00%	4.64%	6.40%	9.62%	25.47%	13.98%	18.39%	18.51%	1.37%	1,767
Executive Office	1.54%	8.62%	7.50%	16.68%	32.24%	2.45%	22.21%	8.76%	1.11%	1,427
Casino	2.61%	6.07%	1.98%	14.90%	27.97%	6.64%	15.96%	23.87%	1.10%	1,416
Telecommunications/PBX	4.04%	1.94%	6.63%	7.92%	41.63%	1.37%	22.96%	13.50%	0.96%	1,237
Purchasing	4.01%	6.51%	6.87%	15.34%	28.99%	4.46%	21.32%	12.49%	0.87%	1,121
Human Resources	0.56%	6.24%	11.18%	19.29%	25.44%	1.96%	27.12%	8.20%	0.83%	1,073
Room Reservations	3.00%	4.94%	4.55%	14.92%	26.55%	2.91%	26.45%	16.67%	0.80%	1,032
Golf	2.50%	5.27%	13.04%	20.16%	18.58%	10.41%	15.28%	14.76%	0.59%	759
Guest Activities	6.52%	5.84%	9.10%	11.96%	18.48%	9.24%	22.83%	16.03%	0.57%	736
General Administration/IT	3.41%	6.64%	8.18%	13.63%	28.28%	5.96%	22.32%	11.58%	0.46%	587
Cashiers	3.44%	5.87%	5.67%	16.40%	29.15%	7.69%	18.62%	13.16%	0.38%	494
% of Total Responses	4.28%	4.92%	6.50%	12.13%	34.18%	6.77%	17.47%	13.74%	100.00%	128,729

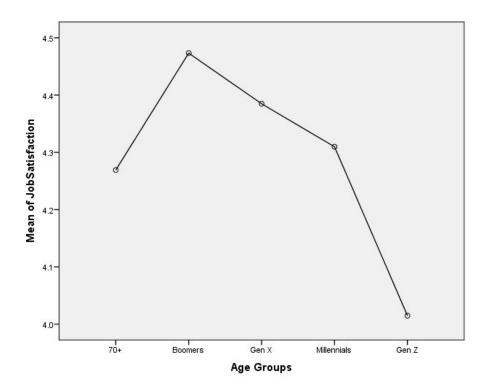
Heat map of job sentiment with varying departments



Mean plot of hotel managements levels and job satisfaction



Mean plot of full time/part time employment and job satisfaction



Mean plot of age groups and job satisfaction

JOB SATISFACTION

Commitment based on:

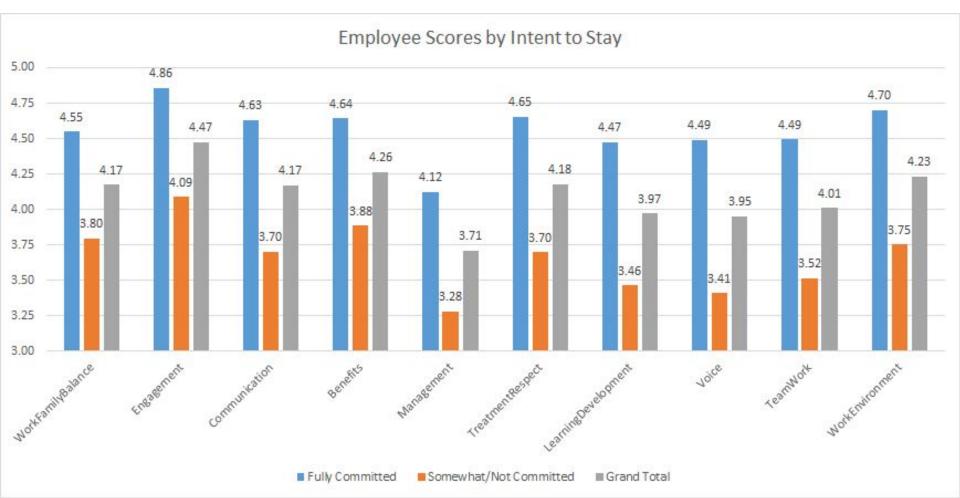
- Job Satisfaction
- Learning Development
- Engagement





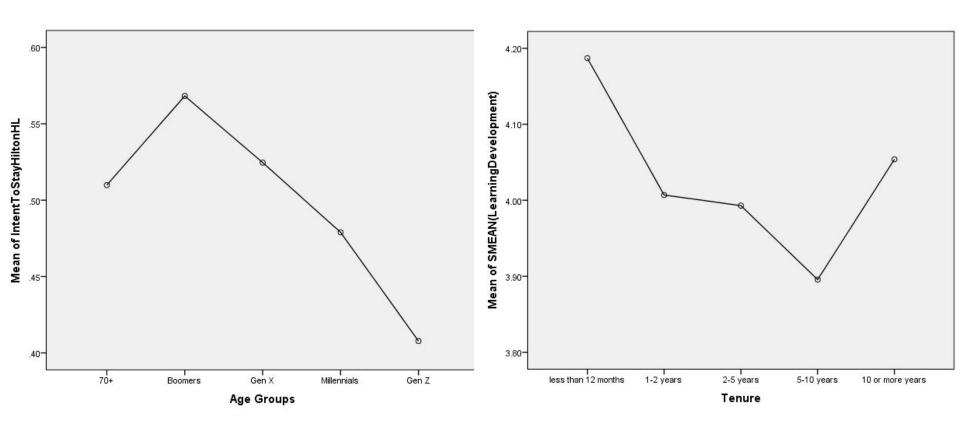


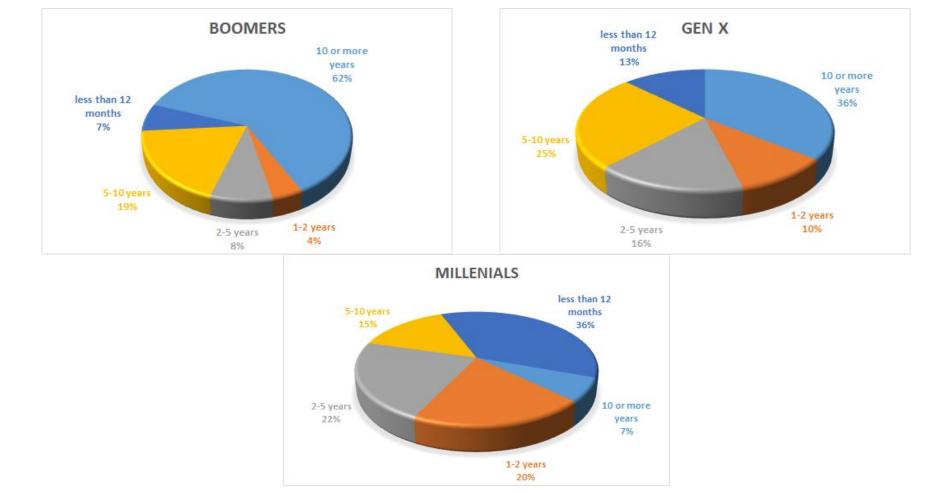
Key Metrics Scores based on level of commitment



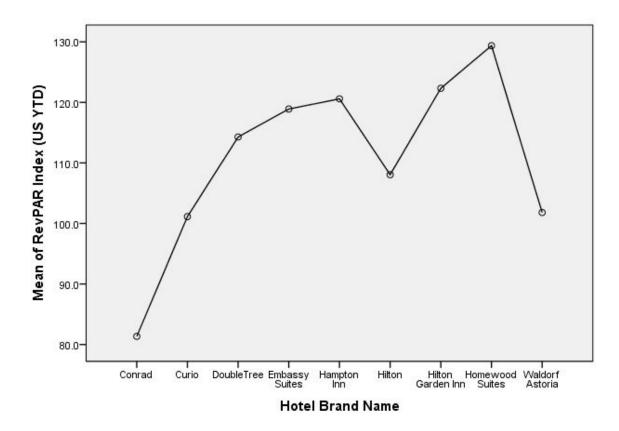
Intent to stay by age group

Learning Development by Tenure

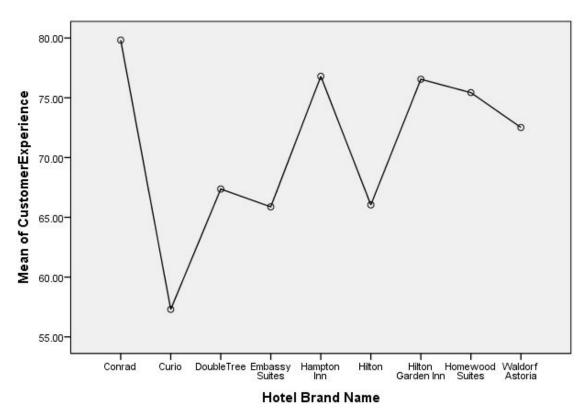




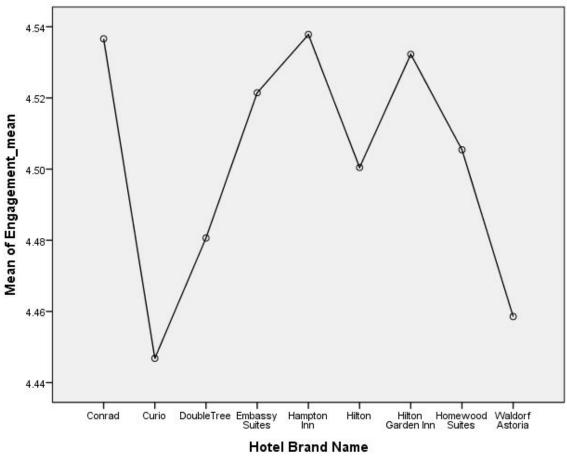
Pie charts that illustrate the distribution of different generations length of employment



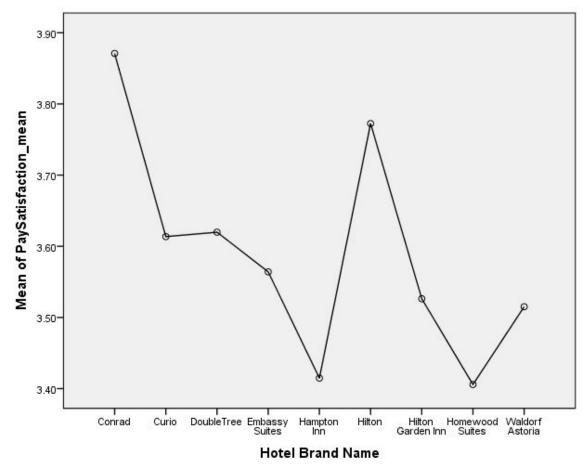
Mean plot of RevPAR Index across Hotel Brands



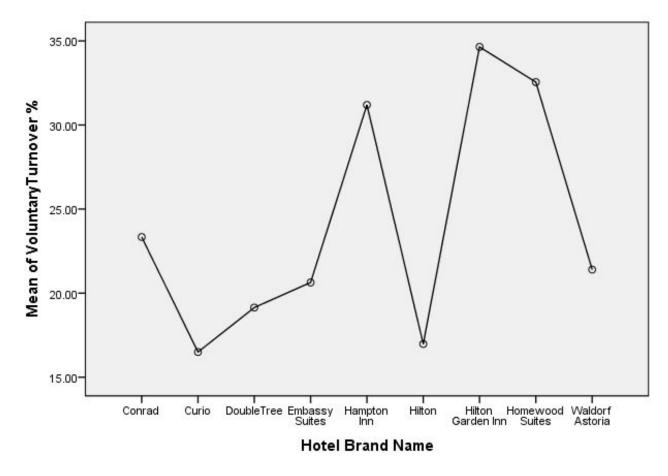
Mean plot of Customer Experience across Hotel Brands



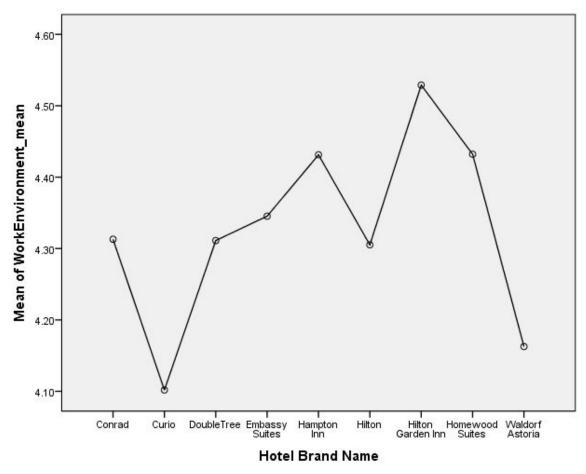
Mean plot of Engagement across Hotel Brands



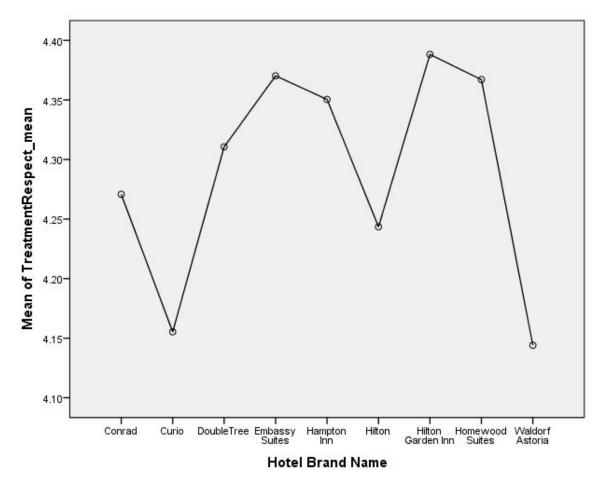
Mean plot of Pay Satisfaction across Hotel Brands



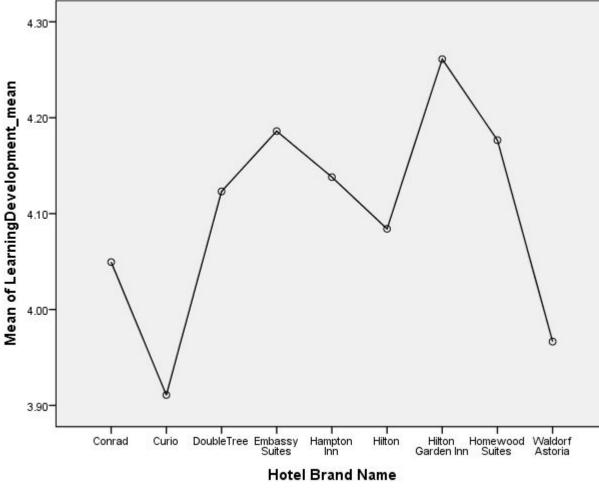
Mean plot of Voluntary Turnover across Hotel Brands



Mean plot of Work Environment across Hotel Brands



Mean plot of Treatment Respect across Hotel Brands



Mean plot of Learning Development across Hotel Brands

Employees Cluster

