

Mastery Project

# **“TRAVEL TIDE”**

Customer segmentation & perks

with Key Metrics

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# Data-based analysis of travel patterns

Requirements of Travel Tide (Elena is the Lead)

**6**

Different customer segments based on travel behavior

**7+**

Minimum number of sessions per user for the analysis

**Jan 2023**

Analysis period begins after January 4, 2023

**2+**

Minimum booked trips per user for segmentation

**Individual**

Customized perks for every customer segment

**Precise**

algorithm takes into: Age, marital status and travel patterns

User 4413

# Segment “Mature Single”

Perk: Premium Experience & Cultural Tours

**35-64 years**

Age Group

**Unmarried**

Marital status

**Flexible**

Variable travel length

**Premium**

Higher willingness to spend

**Culture**

Interest in educational tours

**Quality**

Focus on quality of experience

User 1664

Rate 37.7 %

# Segment “Couple Traveler”

Perk: Romantic upgrade & couples spa package

**Married**

Marital status

**Without children**

Child status

**2**

travelers per booking

**35-64 Years**

Age Group

**Romantic**

Focus on couple experiences

**Quality Time**

Common experiences are important

User 1030

Rate 23.3 %

# Segment “Family Traveler”

Perk: Kids Fly Free & Family Entertainment Package

## Have Children

Family Travel

**5 +**

Nights per Trip

**30 % +**

Main Travel Time ( Summer Holiday )

**3 +**

Sets per booking

**3 +**

Baggage per booking

## Several Rooms

Preferred Apartments

User 717

Rate 16.3 %

# Segment “Single Traveler”

Perk: Solo Traveler Bonus & City Tour Credits

**Unmarried**

Marital status

**max 35 years**

Age Group

**Flexible**

Variable travel length

**Spontaneous**

Travel Time

**Premium**

Above-average hotel prices

**Adventure**

Focus on experiences

User 519

Rate 11.8 %

# Segment “Business Traveler”

Perk: Priority Check-in & Lounge Access

**2-3**

Nights per Trip

**70 %**

Weekdays Travel

**< 65 Years**

Age Group

**1-2**

Seats per booking

**1**

Baggage per booking

**Single Room**

Preferred Apartments

User 318

Rate 8.6 %

# Segment “Senior Traveler”

Perk: Senior Discount & Flexible Booking

**7 +**

Nights per Trip

**> 65 years**

Age Group

**≤ 40 %**

Main Travel Time

**Premium**

Above-average hotel prices

**Comfort**

Focus on comfort

**Double room / Suites**

Preferred Apartments

User 103

Rate 2.3 %



# Recommendation

## Priority Focus

Target Mature Single segment (37.7% of users) with premium cultural experiences to maximize revenue impact and customer satisfaction

## Quick Wins

Implement Business Traveler perks first - highest willingness to pay for convenience features like priority check-in and lounge access

## Revenue Optimization

Focus on premium segments (Mature Single, Senior, Business) representing 48.6% of customers with above-average spending patterns

## Retention Strategy

Develop family-specific packages during summer months to capture the 16.25% family segment during peak travel periods

## Technology Integration

Deploy machine learning algorithms to automatically assign segments and trigger personalized perk offers in real-time

## Partnership Development

Establish strategic alliances with cultural tour operators, spa networks, and business lounges to deliver authentic segment-specific experiences

## Success Metrics

Track conversion rates, average booking value, and customer lifetime value by segment to measure personalization effectiveness

## Risk Mitigation

Start with A/B testing on 25% of users to validate perk effectiveness before full rollout across all customer segments

# Strategic implementation

## Implementation of segment-specific perks

### Immediate actions

✔ Activate automatic segmentation:

Integration of the SQL algorithm into the booking platform

🏷️ Implement perk display:

Show segment-specific offers in the user dashboard

✉️ Personalized e-mail campaigns:

Segment-based newsletter with relevant offers

Real-time:

Dashboard for continuous monitoring of KPIs

Automated:

Alerts for deviations from target values

🤖 AI-powered:

Predictive analytics for early trend detection

### Medium-term goals

🤝 Establish a partnership network:

Negotiations with lounges, spas and cultural providers

📱 Mobile App Enhancement:

Segment-specific features and booking options

📊 A/B Testing Framework:

Continuous optimization of Perk offers

### Long-term vision

🤖 AI-supported personalization:

Machine learning for dynamic perk adjustment

🌐 Global expansion:

Localization of perks for international markets

💎 Premium Loyalty Program:

Tiered system with segment-specific rewards

# **Supporting data**

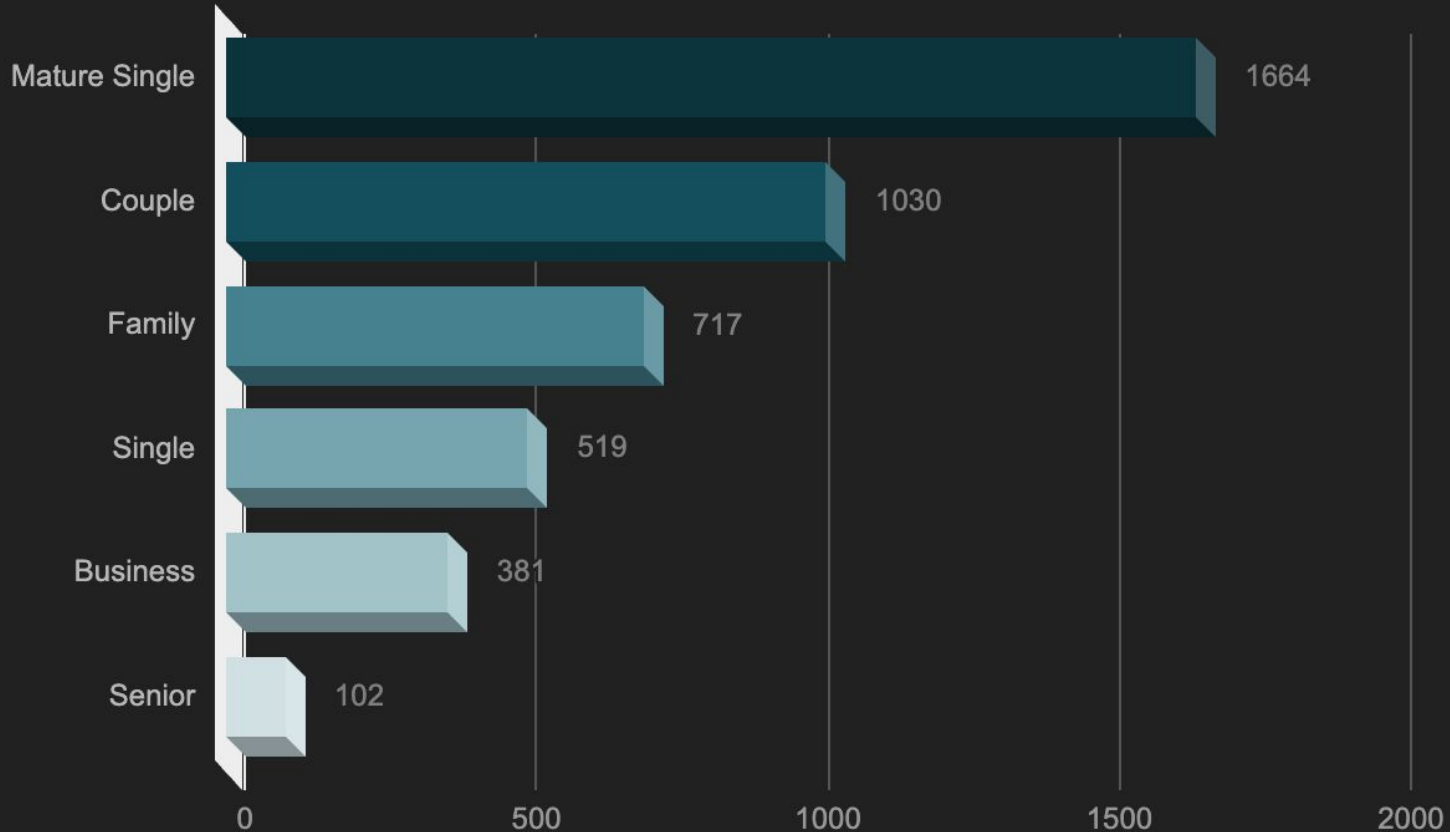
Tables & Diagrams

# Customer segments Overview

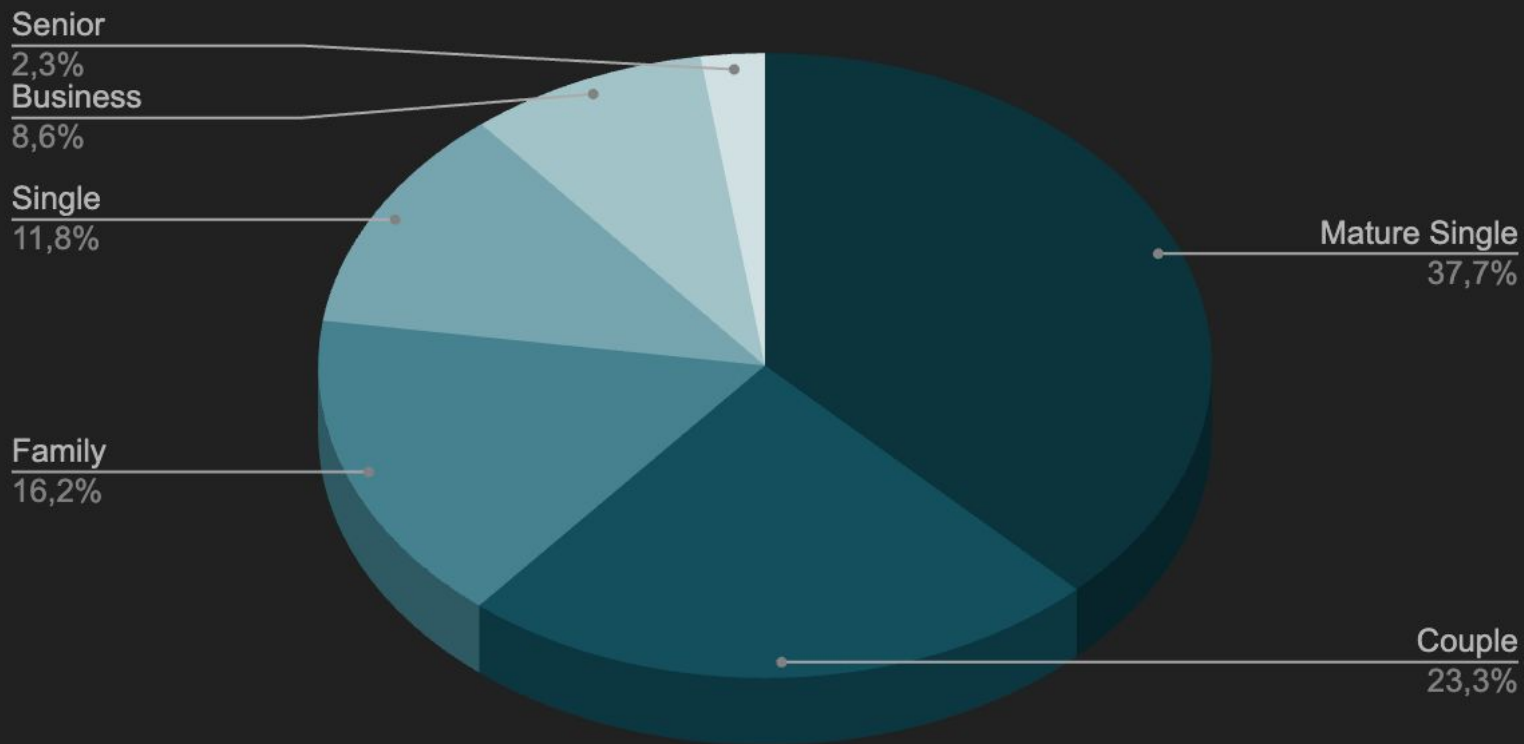
6 main segments based on travel behavior

Segment	Key Features	Age	Nights	Travel Type
Business	<i>Short stays, weekdays</i>	< 65 years	< 3	Weekdays traveler
Family	<i>With children, several seats</i>	< 65 years	5+	Vacation & Summer
Senior	<i>Longer stays, Premium</i>	65+ years	7+	Outside peak season
Single	<i>Young, single</i>	< 35 years	Variable	Flexible
Couple	<i>Married, no children</i>	35-64 years	Variable	Romantic
Mature Single	<i>Middle-aged, premium</i>	35-64 years	Variable	Culture & Quality

# Segment overview by number of users



# Segment distribution by user in percent



# Segment distribution and key metrics

Segment	User Count	% of Total	Avg Age	Avg Trips	Avg Nights/Trip	Avg Seats	Avg Hotel Price	Weekday Ratio	Holiday Ratio	% Male	% Female	% Married	% w/ Children
Mature Single	1,664	37.71	44.3	3.6	4.2	1.2	178	0.69	0.18	13.1	86.7	0.0	25.7
Couple	1,030	23.34	47.5	3.4	4.4	1.2	176	0.67	0.19	8.8	91.1	100.0	0.0
Family	717	16.25	47.4	3.2	4.5	1.3	180	0.69	0.17	11.3	88.3	99.9	100.0
Single	519	11.76	28.4	2.8	5.1	1.2	183	0.62	0.16	9.2	90.8	0.0	23.7
Business	381	8.63	44.0	3.2	2.1	1.0	175	0.95	0.17	10.5	89.5	45.4	33.3
Senior	102	2.31	69.2	2.5	5.8	1.3	174	0.62	0.20	5.9	94.1	75.5	14.7

# Segment & Perk per User ID

User ID	User Segment	Segment Perk
94883	Couple	Romantic Upgrade & Couples Spa Package
101486	Family	Kids Fly Free & Family Entertainment Package
101961	Couple	Romantic Upgrade & Couples Spa Package
118043	Mature Single	Premium Experience & Cultural Tours
125845	Couple	Romantic Upgrade & Couples Spa Package
153982	Business	Priority Check-in & Lounge Access
171470	Single	Solo Traveler Bonus & City Tour Credits
174997	Business	Priority Check-in & Lounge Access
175032	Single	Solo Traveler Bonus & City Tour Credits
181157	Couple	Romantic Upgrade & Couples Spa Package



Thank you for your attention !

Do you have any questions ?

<https://github.com/akms2411/Mastery-Project-Travel-Tide->