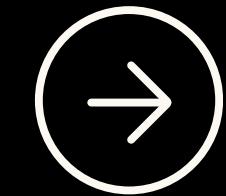




Dream Holidays' Database Manager

TOURISM MANAGEMENT SYSTEM USING MARIADB

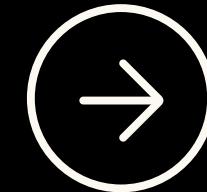




PROBLEM STATEMENT



PROBLEM STATEMENT

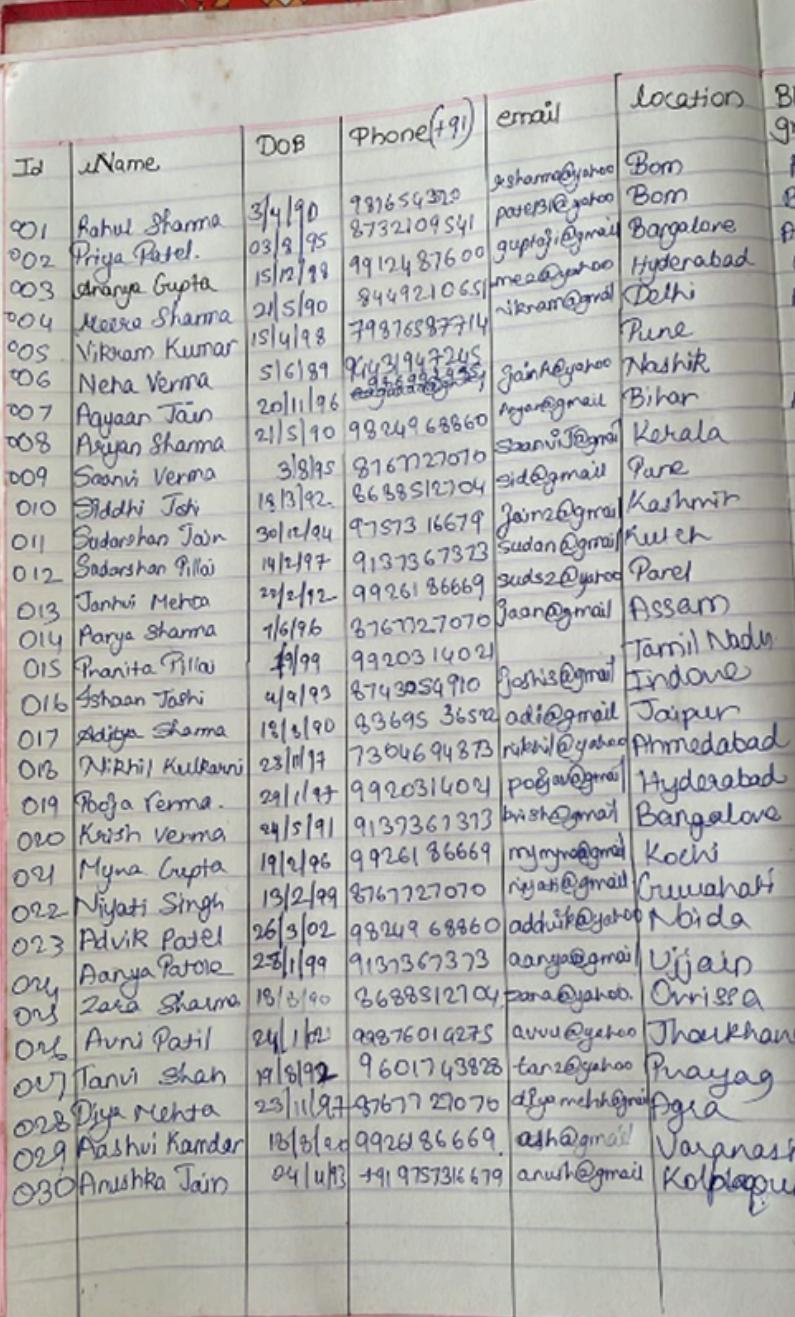


The travel and tourism industry grapples with cumbersome manual processes, leading to delays, errors, and missed opportunities for delivering exceptional experiences. Booking management, itinerary planning, and customer interaction are plagued by inefficiencies, hindering seamless travel experiences for passengers and operational effectiveness for tour operators. There is a critical need for a transformative solution to streamline operations, enhance customer satisfaction, and drive profitability in this dynamic industry.

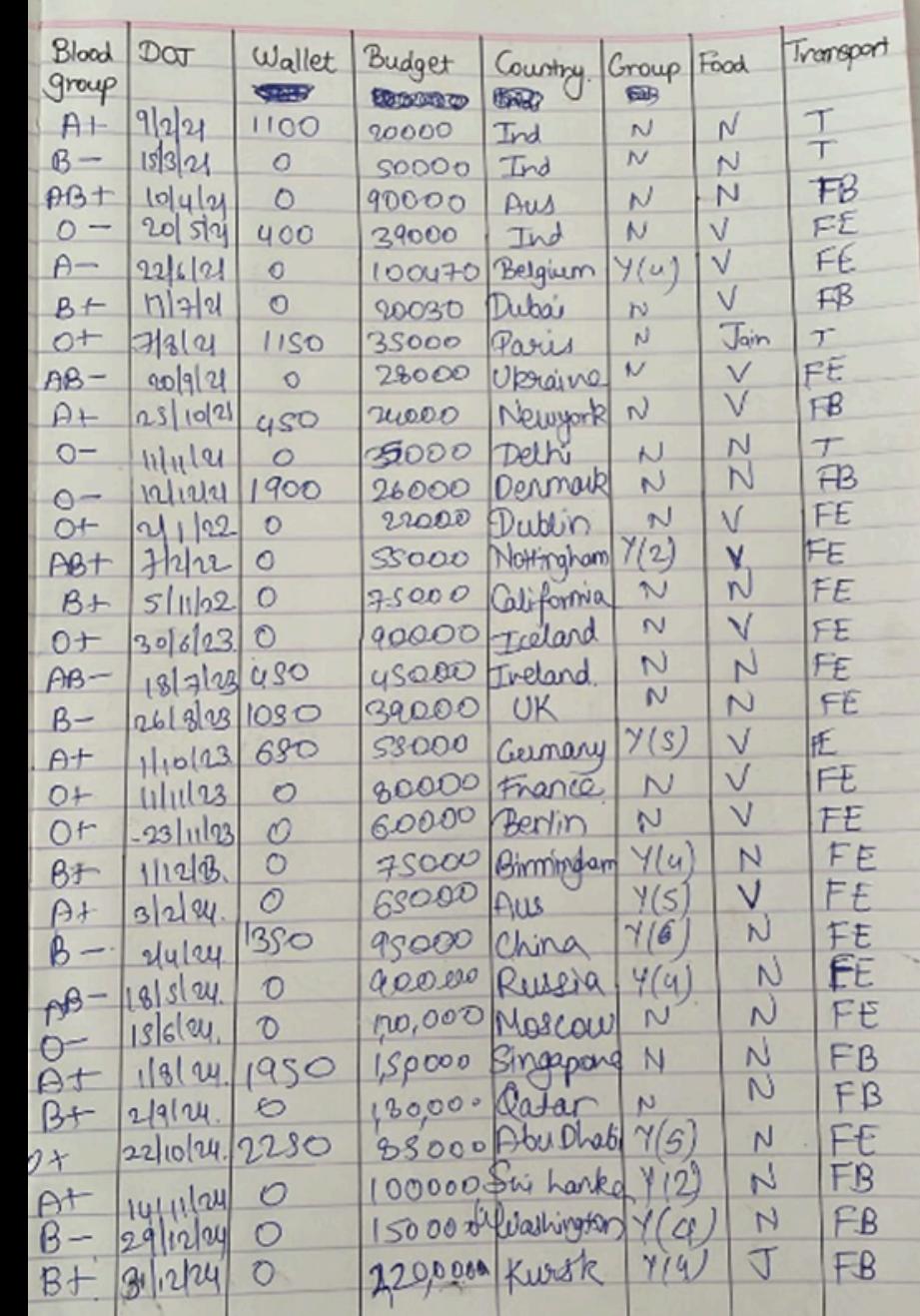
Our proposed Travel and Tourism Management System seeks to improve the industry for a local business "Dream Holidays" by creating an administration centric website for them. Through a user-friendly interface and easily usable database manager, they will be able to convert their register based data entries into a proper database which will be backed by an easy to use database manager as well. So now they can perform various operations like create, update and delete easily in their database.

The website also has an engaging UI for the potential consumers who can check out the various itineraries and packages produced by our business. Furthermore they can view various reports of our company as well as enquire about each product while also generating bills for the same.

FROM THIS -



ID	Name	DOB	Phone (91)	Email	Location	Blood Group
001	Rahul Sharma	3/4/90	981654323	rahulsharma@yahoo	Bom	A+
002	Priya Patel.	03/2/95	8732109541	priyapatel@yahoo	Bom	B-
003	Shreya Gupta	15/12/99	9912487600	guptashreya@gmail	Bangalore	AB+
004	Meesha Sharma	21/5/90	8449210651	meesha@yahoo	Hyderabad	O-
005	Vikram Kumar	15/4/98	79876587714	vikram@gmail	Delhi	A-
006	Neha Verma	5/6/89	91931947245	jainnehav@gmail	Pune	BT
007	Aayush Jain	20/11/96	9824968860	aayushjain@gmail	Nashik	O+
008	Aryan Sharma	21/5/90	9824968860	ayan@gmail	Bihar	AB-
009	Saanvi Verma	3/8/95	816772070	saanvi@gmail	Kerala	A+
010	Siddhi Joshi	13/3/92	8638512704	siddhi@gmail	Pune	O-
011	Sudarshan Jain	30/11/94	9757316679	jainr2@gmail	Kashmir	O-
012	Sudarshan Pillai	14/2/97	9137367373	sudarshanpillai@gmail	Sudan	O+
013	Janhvi Mehta	20/2/92	9926186669	janhvi@gmail	Parel	AB
014	Paryu Sharma	1/6/96	8767727070	paryu@gmail	Assam	B
015	Pharita Pillai	1/9/99	992031402	pharita@gmail	Tamil Nadu	O-
016	Ishaan Joshi	4/9/93	8743034910	ishaan@gmail	Indore	AB
017	Aditya Sharma	18/3/90	9369536512	aditya@gmail	Jaipur	B
018	Nikhil Kulkarni	23/10/97	7304694373	nikhil@yahoo	Ahmedabad	A
019	Rupa Verma	29/1/97	992031402	rupa@gmail	Hyderabad	O-
020	Krish Verma	24/5/91	9139361313	bishu@gmail	Bangalore	O
021	Myna Gupta	19/2/96	9926186669	mynagupta@gmail	Kochi	B
022	Niyati Singh	19/2/99	8767727070	niyati@gmail	Cuttack	O-
023	Adiulk Patel	26/3/02	9824968860	adiulk@yahoo	Noida	O+
024	Aanya Patole	28/1/99	9137367373	aanya@gmail	Ujjain	O-
025	Zara Sharma	18/6/90	8688312704	zara@yahoo	Orissa	AB-
026	Anvi Patil	24/1/92	99876019275	anvi@yahoo	Jharkhand	O-
027	Tanvi Shah	19/8/92	9601743828	tanvi@yahoo	Punjab	AB-
028	Disha Mehta	23/11/97	9767727070	disha.mehtha@gmail	Agra	BT
029	Aashvi Kander	18/3/02	9926186669	aashvi@gmail	Varanasi	AT
030	Anushka Jain	04/10/93	+91 9757316679	anushka.jain@gmail	Kolhapur	B+



Blood Group	DOJ	Wallet	Budget	Country	Group	Food	Transport
A+	9/2/21	1100	20000	Ind	N	N	T
B-	15/3/21	0	50000	Ind	N	N	T
AB+	10/4/21	0	90000	Aus	N	N	FB
O-	20/5/21	400	24000	Ind	N	V	FE
A-	22/6/21	0	100070	Belgium	Y(u)	V	FE
BT	7/7/21	0	20030	Dubai	N	V	FB
O+	2/8/21	1150	35000	Paris	N	Jain	T
AB-	20/9/21	0	28000	Ukraine	N	V	FE
AT	23/10/21	450	24000	Newyork	N	V	FB
O-	11/11/21	0	25000	Delhi	N	N	T
O-	11/11/21	1900	26000	Denmark	N	N	FB
O+	21/11/21	0	22000	Dublin	N	V	FE
AB+	7/12/21	0	55000	Nottingham	Y(2)	V	FE
BT	5/11/21	0	75000	California	N	N	FE
O+	30/11/21	0	90000	Iceland	N	V	FE
AB-	18/12/21	450	45000	Ireland	N	N	FE
B-	26/12/21	1080	39000	UK	N	N	FE
AT	11/01/22	680	53000	Germany	Y(S)	V	FE
O+	11/11/21	0	80000	France	N	V	FE
O+	23/11/21	0	60000	Berlin	N	V	FE
BT	11/12/21	0	75000	Birmingham	Y(4)	N	FE
AT	3/12/21	0	65000	Aus	Y(S)	V	FE
B-	24/12/21	1380	95000	China	Y(6)	N	FE
AB-	18/12/21	0	400000	Russia	Y(4)	N	FE
O-	18/12/21	0	70,000	Moscow	N	N	FE
AT	18/12/21	1950	150000	Singapore	N	N	FB
BT	2/12/21	0	130,000	Qatar	N	N	FB
O+	22/10/21	2280	33000	Abu Dhabi	Y(S)	N	FE
AT	14/11/21	0	100000	Sri Lanka	Y(2)	N	FB
B-	29/12/21	0	150,000	Washington	Y(4)	N	FB
BT	31/12/21	0	220,000	Kurukshetra	Y(4)	J	FB

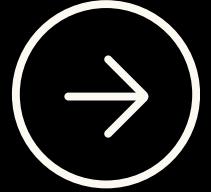


TO THIS -

TO THIS -

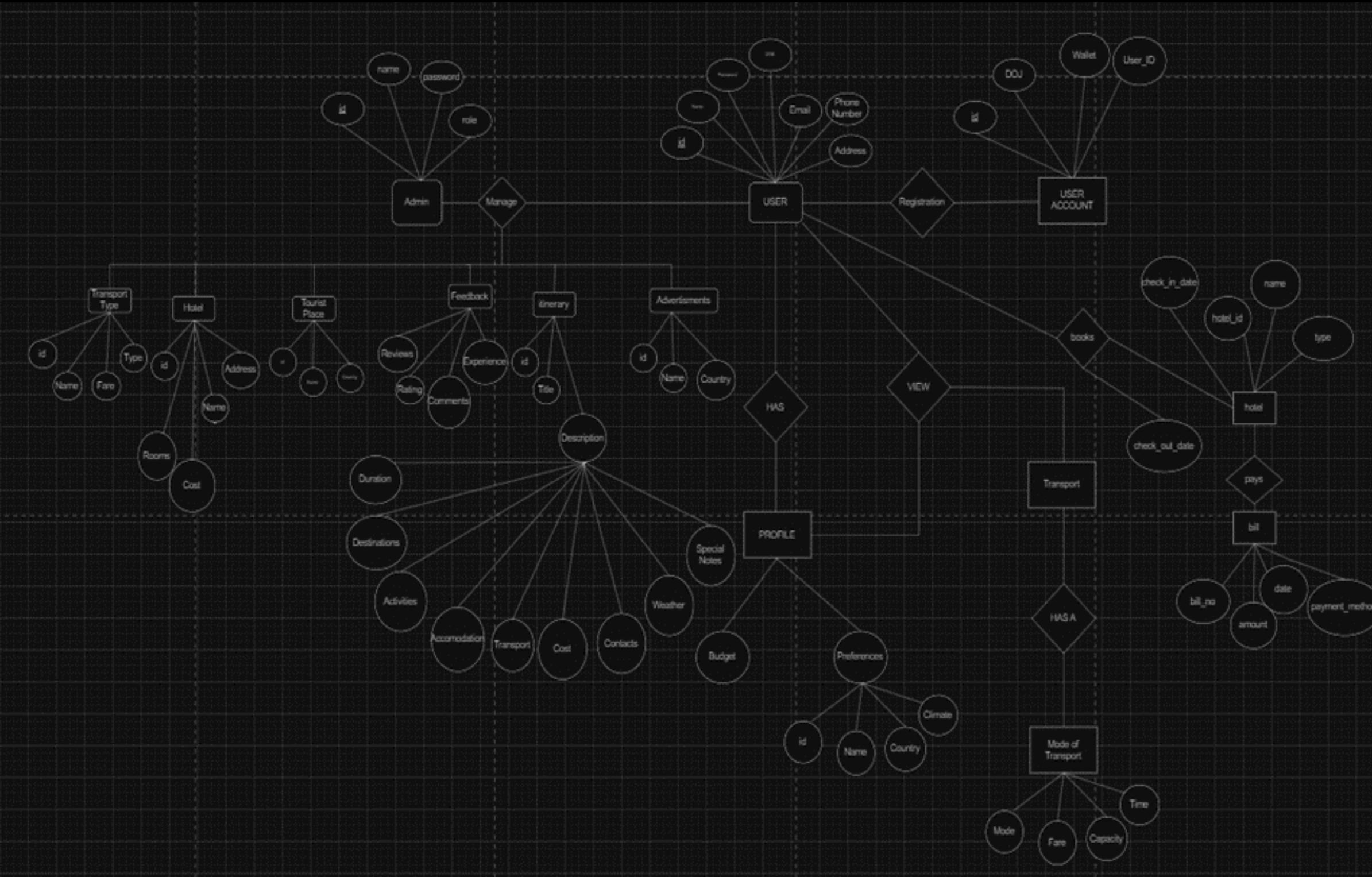
The screenshot shows the 'TOURISM MANAGEMENT SYSTEM' dashboard. On the left, a sidebar menu includes 'Dashboard', 'Tour Packages', 'Manage Users' (which is currently selected), 'Manage Booking', 'Manage Enquiries', 'Create Itinerary', 'Manage Hotels', and 'Manage Transport'. The main content area has a green header bar with 'TOURISM MANAGEMENT SYSTEM' and a blue header bar with a user icon and 'Welcome Administrator'. Below these, a breadcrumb navigation shows 'Home > Manage Users'. A large green button labeled 'ADD USER' and a yellow button labeled 'DELETE USER BY NAME' are visible. The 'Manage Users' section displays a table with two rows of data:

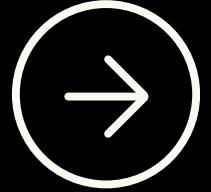
#	NAME	EMAIL ID	REGDATE	ADDRESS	USER ID	ACTION
1	Surekha Yedurkar	nehakhan@gmail.com	1972-07-06	Mumbai	U1006	Edit Delete
2	Vikram Malhotra	vikrammalhotra@example.com	1965-06-12	Pune	U1007	Edit Delete



DATA MODEL

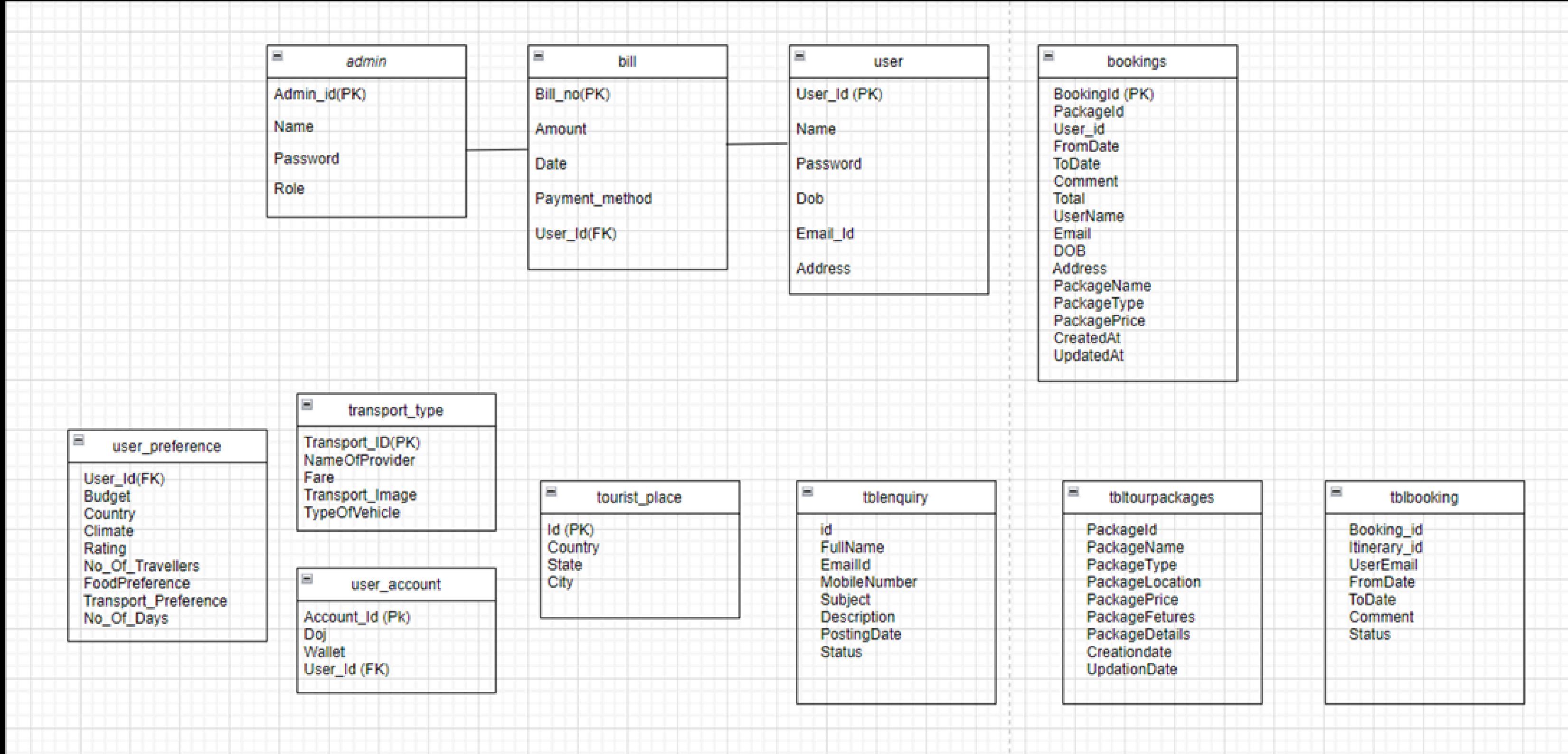
ER DIAGRAM(v.0.1)





DATABASE DESIGN

SCHEMA DESIGN



DISCOVER OUR TABLES

ADMIN TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Virtuali
1	Admin_id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
2	Name	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
3	Password	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
4	Role	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		

BOOKINGS TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Express
1	BookingId	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AUTO_INCREMENT			
2	Packageld	INT	11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL			
3	User_id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
4	FromDate	DATE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL			
5	ToDate	DATE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL			
6	Comment	TEXT		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
7	Total	INT	11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL			
8	UserName	VARCHAR	255	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
9	Email	VARCHAR	255	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
10	DOB	DATE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL			
11	Address	TEXT		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
12	PackageName	VARCHAR	255	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
13	PackageType	VARCHAR	255	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		armscii8_bin	
14	PackagePrice	DECIMAL	10,2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL			
15	CreatedAt	TIMESTAMP		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	current_timestamp			
16	UpdatedAt	TIMESTAMP		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	current_timestamp			

DISCOVER OUR TABLES

BILL TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression
1	Bill_no	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci	
2	Amount	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL			
3	Date	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
4	Payment_met...	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
5	User_Id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci	

HOTEL TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Virt
1	Hotel_id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
2	Name	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
3	No_Of_Rooms	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
4	Cost	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
5	Address	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
6	Rating	DOUBLE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
7	Hotel_Image	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		

DISCOVER OUR TABLES

TOURIST_PLACES TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Virtu
1	Id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
2	Country	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
3	State	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
4	City	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		

TRANSPORT_TYPE TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Virtu
1	Transport_id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
2	NameOfProv...	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
3	Fare	DOUBLE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
4	TypeOfVehicle	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
5	Transport_Ima...	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		

DISCOVER OUR TABLES

TBLITINERARY TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression
1	Itinerary_id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci	
2	Title	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
3	Budget	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL		utf8mb4_general_ci	
4	Country	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
5	State	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
6	City	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
7	Rating	DOUBLE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL		utf8mb4_general_ci	
8	No_Of_Travell...	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
9	FoodPreference	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
10	Transport_id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
11	Hotel_id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
12	Date_Of_Travel	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	
13	ItineraryImage	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci	

DISCOVER OUR TABLES

TBLENQUIRY TABLE

Columns:		+ Add	- Remove	▲ Up	▼ Down								
#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Vir		
1	id	INT	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AUTO_INCREMENT						
2	FullName	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci				
3	EmailId	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci				
4	MobileNumber	CHAR	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci				
5	Subject	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci				
6	Description	MEDIUMTEXT		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci				
7	PostingDate	TIMESTAMP		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	current_timestamp						
8	Status	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL						

DISCOVER OUR TABLES

TBLTOURPACKAGES TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Virt
1	PackagId	INT	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AUTO_INCREMENT				
2	PackageName	VARCHAR	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci		
3	PackageType	VARCHAR	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci		
4	PackageLocati...	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci		
5	PackagePrice	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
6	PackageFetures	VARCHAR	255	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci		
7	PackageDetails	MEDIUMTEXT		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci		
8	PackageImage	VARCHAR	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		latin1_swedish_ci		
9	Creationdate	TIMESTAMP		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	current_timestamp				
10	UpdationDate	TIMESTAMP		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL ON UPDAT...				

USER TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	Virt
1	User_Id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
2	Name	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
3	Password	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
4	Dob	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
5	Email_Id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
6	Address	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		

DISCOVER OUR TABLES

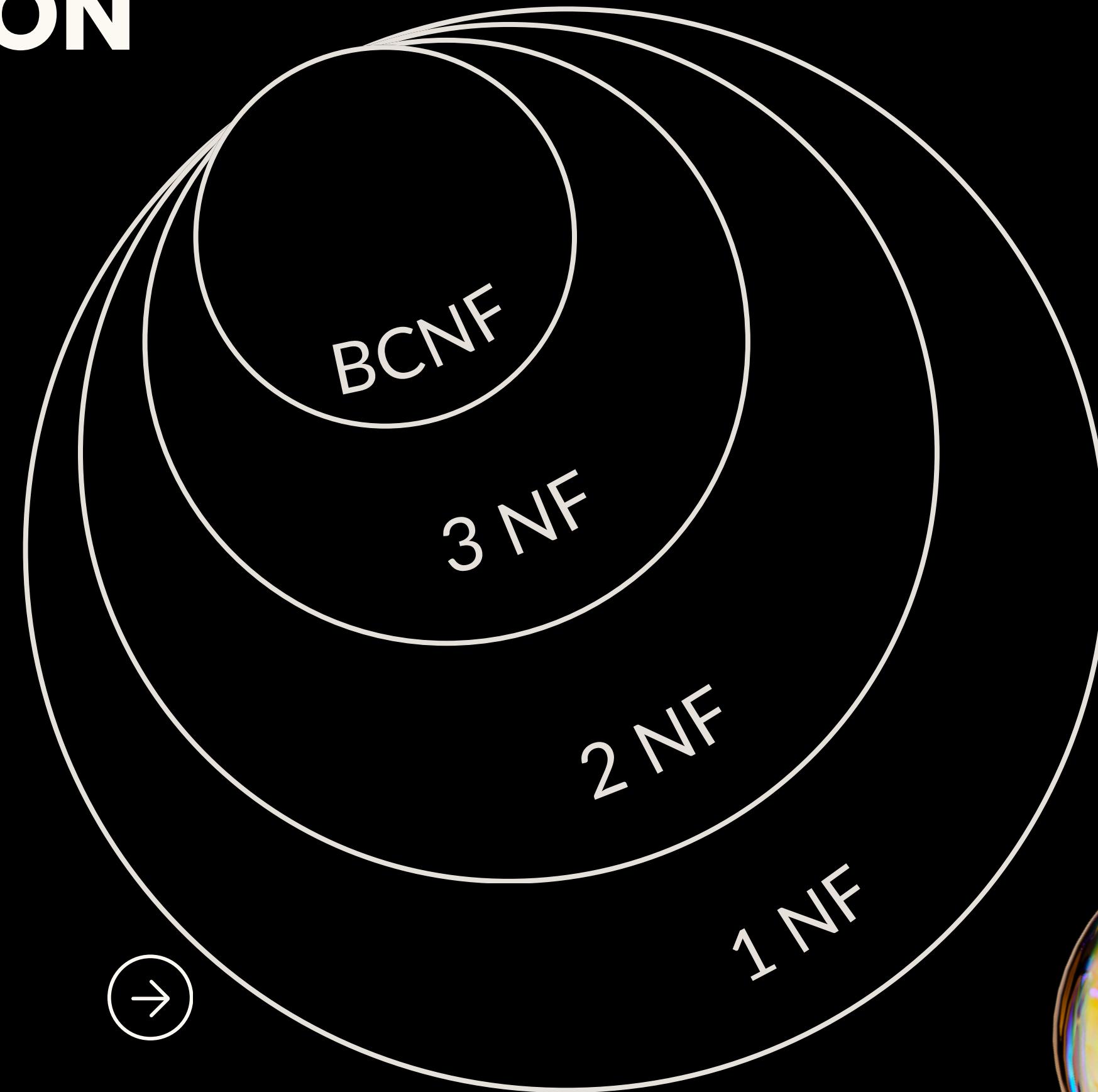
USER_ACCOUNT TABLE

Columns:		+ Add	- Remove	▲ Up	▼ Down							
#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	V	
1	Account_Id	VARCHAR	512	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci			
2	Doj	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci			
3	Wallet	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL					
4	User_Id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci			

USER_PREFERENCE TABLE

#	Name	Datatype	Length/Set	Unsigned	Allow NU...	Zerofill	Default	Comment	Collation	Expression	V
1	User_Id	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
2	Budget	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
3	Country	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
4	Climate	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
5	Rating	DOUBLE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL				
6	No_Of_Travell...	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
7	FoodPreference	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
8	Transport_Pref...	VARCHAR	512	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL		utf8mb4_general_ci		
9	No_Of_Days	INT	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL				

NORMALIZATION PROCESS



NON-NORMALIZED FORM (UNF)

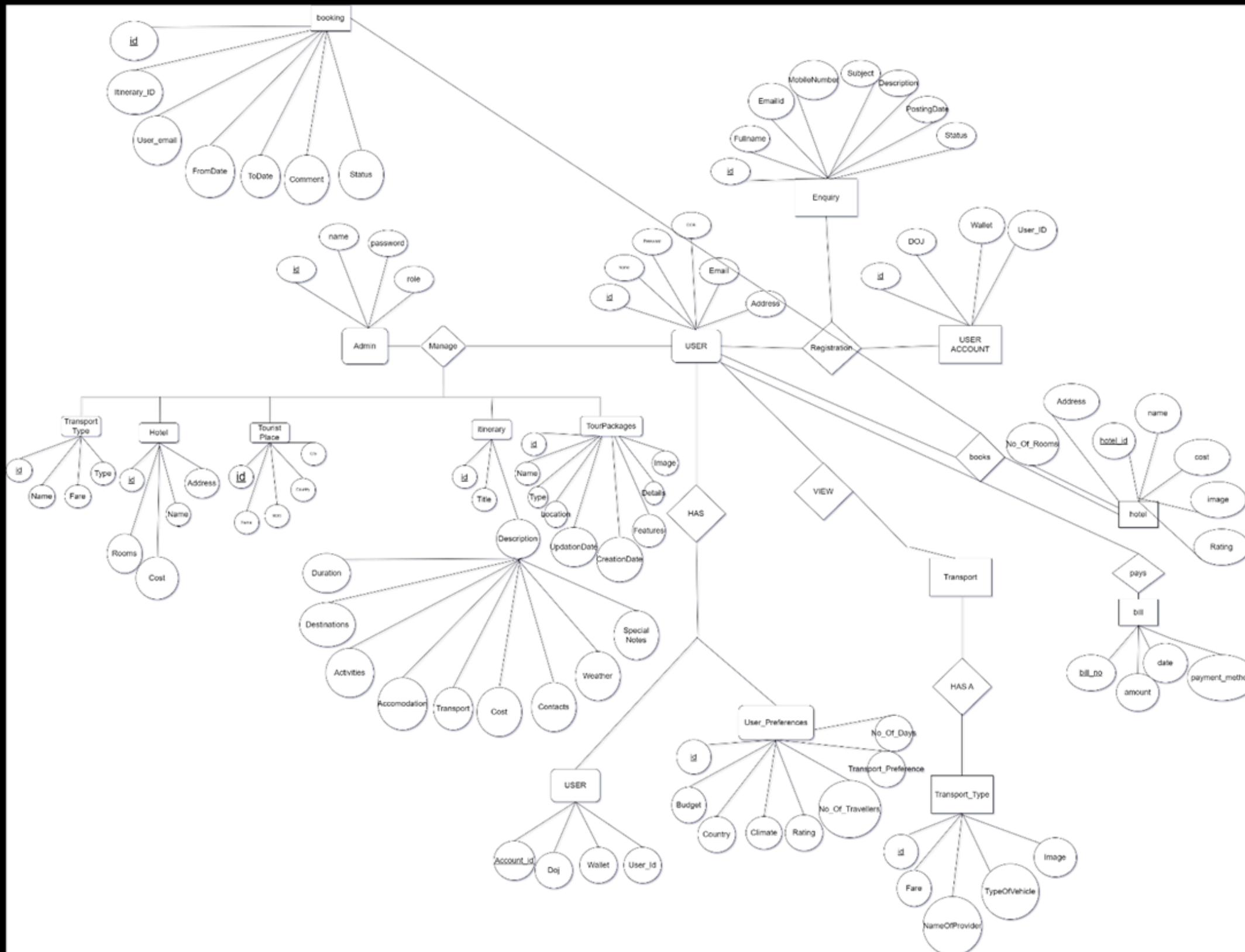
- Data Redundancy: High, no constraints to eliminate redundancy.
- Repeating Groups: Can contain repeating groups and arrays.
- Data Integrity: Low, with potential anomalies in insert, update, and delete operations.
- Structure: Unstructured, with possible hierarchical or nested data.
- Dependencies: Functional dependencies are not considered, leading to potential anomalies like Update Anomalies, Insertion Anomalies and Deletion Anomalies

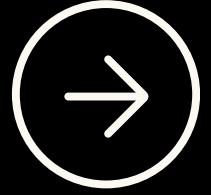
THIRD NORMAL FORM (3NF)

- Data Redundancy: Low, as redundant data is minimized through normalization.
- Repeating Groups: No repeating groups; data is atomic (single value per field).
- Data Integrity: High, as normalization ensures referential and entity integrity.
- Structure: Structured, with clearly defined relationships between tables.
- Dependencies: Functional dependencies are addressed; transitive dependencies are removed.
- Normalization Process: Data must first meet 1NF and 2NF before achieving 3NF.



NORMALISED ER DIAGRAM





DATA QUERIES

VARIOUS DDL QUERIES

```
CREATE TABLE bill
(
    Bill_no VARCHAR(512),
    Amount INT,
    Date VARCHAR(512),
    Payment_method VARCHAR(512),
    User_Id VARCHAR(512)
);
```

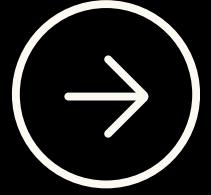
```
CREATE TABLE Hotel
(
    Hotel_id VARCHAR(512),
    Name VARCHAR(512),
    No_Of_Rooms INT,
    Cost INT,
    Address VARCHAR(512),
    Rating DOUBLE
);
```

```
CREATE TABLE User_Account
(
    Account_Id VARCHAR(512),
    Doj VARCHAR(512),
    Wallet INT,
    User_Id VARCHAR(512)
);
```

```
CREATE TABLE Itinerary
(
    Itinerary_id VARCHAR(512),
    Title VARCHAR(512),
    Budget INT,
    Country VARCHAR(512),
    State VARCHAR(512),
    City VARCHAR(512),
    Rating DOUBLE,
    No_Of_Travellers VARCHAR(512),
    FoodPreference VARCHAR(512),
    Transport_id VARCHAR(512),
    Hotel_id VARCHAR(512),
    Date_Of_Travel VARCHAR(512)
);
```

```
CREATE TABLE Tourist_Places
(
    Id VARCHAR(512),
    Country VARCHAR(512),
    State VARCHAR(512),
    City VARCHAR(512)
);
```

```
CREATE TABLE User_Preference
(
    User_Id VARCHAR(512),
    Budget INT,
    Country VARCHAR(512),
    Climate VARCHAR(512),
    Rating DOUBLE,
    No_Of_Travellers VARCHAR(512),
    FoodPreference VARCHAR(512),
    Transport_Preference VARCHAR(512),
    No_Of_Days INT
);
```



TRIGGERS AND PROCEDURES

TRIGGERS

```
1 CREATE DEFINER=`username`@`mshome` TRIGGER `admin_before_insert` BEFORE INSERT ON `admin` FOR EACH ROW BEGIN
2     IF LENGTH(NEW.Password) < 8 THEN
3         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Password must be at least 8 characters long';
4     END IF;
5 END
```

Figure 3.1(Check Password Length)

```
1 CREATE DEFINER=`root`@`mshome` TRIGGER `bill_after_insert` AFTER INSERT ON `bill` FOR EACH ROW BEGIN
2     DECLARE total_amount DECIMAL(10, 2);
3
4
5     SELECT SUM(Amount) INTO total_amount FROM Bill WHERE User_Id = NEW.User_Id;
6
7
8     UPDATE User_Account SET Wallet = Wallet - NEW.Amount WHERE User_Id = NEW.User_Id;
9 END
```

Figure 3.2 (Update Wallet on Bill Generation)

TRIGGERS

```
1 CREATE DEFINER=`username`@`mshome` TRIGGER `bill_before_insert` BEFORE INSERT ON `bill` FOR EACH ROW BEGIN
2     IF NEW.Amount <= 0 THEN
3         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Amount must be a positive value';
4     END IF;
5 END
```

Figure 3.3(Check for Positive Bill Amount)

```
1 CREATE DEFINER=`username`@`mshome` TRIGGER `enquiry_before_insert` BEFORE INSERT ON `tblenquiry` FOR EACH ROW BEGIN
2     DECLARE mobile_length INT;
3
4     -- Check the Length of the mobile number
5     SET mobile_length = LENGTH(NEW.MobileNumber);
6
7     -- If the length is not equal to 10, raise an error
8     IF mobile_length != 10 THEN
9         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Mobile number must be 10 digits long';
10    END IF;
11 END
```

Figure 3.4 (Check for Mobile Number Length)

TRIGGERS

```
1 CREATE DEFINER='username'@'mshome' TRIGGER `hotel_before_insert` BEFORE INSERT ON `hotel` FOR EACH ROW BEGIN
2   IF NEW.Rating < 0 OR NEW.Rating > 10 THEN
3     SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Rating must be between 0 and 5';
4   END IF;
5 END
```

Figure 3.5 (Constraint for Hotel Ratings)

```
1 CREATE DEFINER='username'@'mshome' TRIGGER `itinerary_before_insert` BEFORE UPDATE ON `itinerary` FOR EACH ROW BEGIN
2   IF NEW.Rating < 0 OR NEW.Rating > 5 THEN
3     SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Rating must be between 0 and 5';
4   END IF;
5 END
```

Figure 3.6 (Constraint for Itinerary Ratings)

TRIGGERS

```
1 CREATE DEFINER=`username`@`mshome` TRIGGER `user_before_insert` BEFORE INSERT ON `user` FOR EACH ROW BEGIN
2     DECLARE birth_date DATE;
3     DECLARE min_birth_date DATE;
4     SET birth_date = STR_TO_DATE(NEW.Dob, '%Y-%m-%d');
5     SET min_birth_date = DATE_SUB(CURRENT_DATE(), INTERVAL 18 YEAR);
6     IF birth_date > min_birth_date THEN
7         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'User must be at least 18 years old';
8     END IF;
9 END
```

Figure 3.7 (Check for User Age)

TRIGGERS

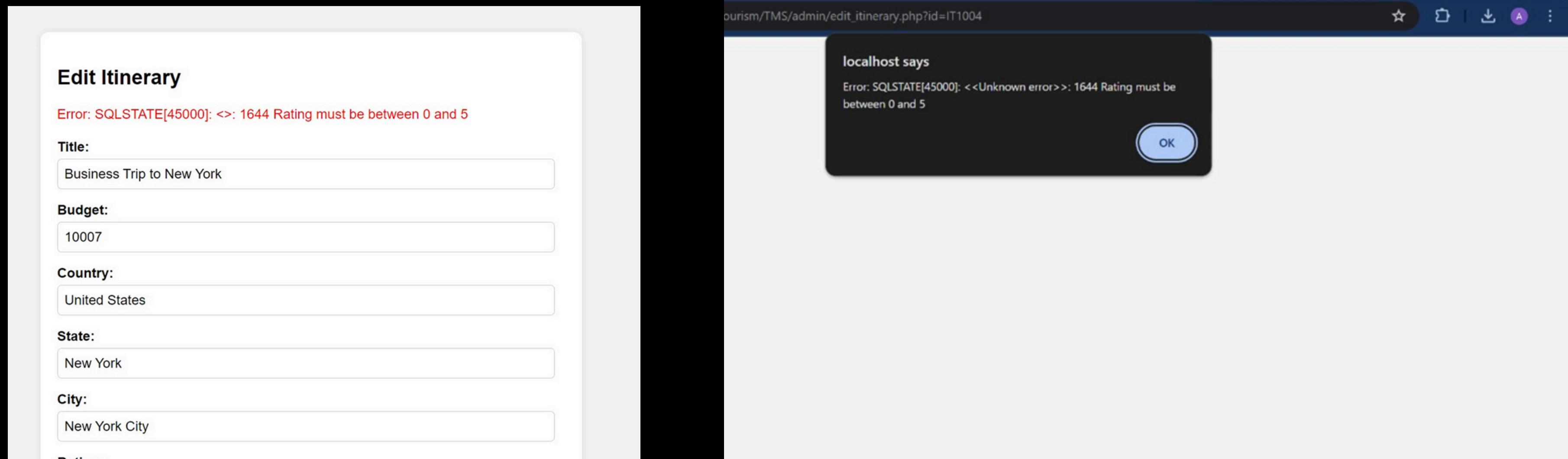


Figure 3.10 An Example of JavaScript Error after MariaDB Trigger

PROCEDURES

```
Database changed
MariaDB [dbms]> DELIMITER //
MariaDB [dbms]>
MariaDB [dbms]> CREATE PROCEDURE AddNewUser(
    ->      IN p_User_Id VARCHAR(512),
    ->      IN p_Name VARCHAR(512),
    ->      IN p_Password VARCHAR(512),
    ->      IN p_Dob VARCHAR(512),
    ->      IN p_Email_Id VARCHAR(512),
    ->      IN p_Address VARCHAR(512)
    -> )
    -> BEGIN
    ->     DECLARE birth_date DATE;
    ->     DECLARE min_birth_date DATE;
    ->
    ->     SET birth_date = STR_TO_DATE(p_Dob, '%Y-%m-%d');
    ->     SET min_birth_date = DATE_SUB(CURRENT_DATE(), INTERVAL 18 YEAR);
    ->
    ->     IF birth_date > min_birth_date THEN
    ->         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'User must be at least 18 years old';
    ->     ELSE
    ->         INSERT INTO user (User_Id, Name, Password, Dob, Email_Id, Address)
    ->             VALUES (p_User_Id, p_Name, p_Password, p_Dob, p_Email_Id, p_Address);
    ->     END IF;
    -> END //
Query OK, 0 rows affected (0.005 sec)

MariaDB [dbms]>
MariaDB [dbms]> DELIMITER ;
```

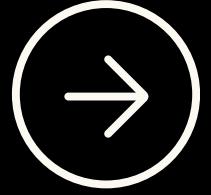
Figure 3.8 AddNewUser Procedure

PROCEDURES

```
MariaDB [dbms]> CREATE PROCEDURE BookPackage(
->      IN p_User_Id VARCHAR(512),
->      IN p_PackageId INT,
->      IN p_FromDate DATE,
->      IN p_ToDate DATE,
->      IN p_Comment TEXT,
->      IN p_Total DECIMAL(10, 2),
->      IN p_UserName VARCHAR(255),
->      IN p_Email VARCHAR(255),
->      IN p_DOB DATE,
->      IN p_Address TEXT,
->      IN p_PackageName VARCHAR(255),
->      IN p_PackageType VARCHAR(255),
->      IN p_PackagePrice DECIMAL(10, 2)
-> )
-> BEGIN
->     DECLARE wallet_balance DECIMAL(10, 2);
->
->     -- Check if the user has enough balance in their wallet
->     SELECT Wallet INTO wallet_balance FROM user_account WHERE User_Id = p_User_Id;
->
->     IF wallet_balance < p_Total THEN
->         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Insufficient wallet balance';
->     ELSE
->         -- Insert new booking
->         INSERT INTO bookings (PackageId, User_id, FromDate, ToDate, Comment, Total, UserName, Email, DOB, Address, PackageName, PackageType, PackagePrice)
->             VALUES (p_PackageId, p_User_Id, p_FromDate, p_ToDate, p_Comment, p_Total, p_UserName, p_Email, p_DOB, p_Address, p_PackageName, p_PackageType, p_PackagePrice
);
->
->         -- Update user's wallet balance
->         UPDATE user_account SET Wallet = Wallet - p_Total WHERE User_Id = p_User_Id;
->     END IF;
-> END //
Query OK, 0 rows affected (0.007 sec)

MariaDB [dbms]>
MariaDB [dbms]> DELIMITER ;
MariaDB [dbms]>
```

Figure 3.9 BookPackage Procedure



VISUALIZATION AND REPORT GENERATION

Dubai
#PKG-17

Package Type : Desert Safari
Package Location : Dubai , United Arab Emirates
Features Emirates First Class

From 2024-05-01 To 2024-05-15

Price
₹150500
Per Day

Package Details

Embark on an unforgettable journey from the bustling metropolis of Mumbai to the dazzling cityscape of Dubai. This package offers a perfect blend of cultural exploration, luxurious experiences, and thrilling adventures in one of the world's most vibrant destinations.

Connected successfully! From Date: 2024-05-01
To Date: 2024-05-15
Package ID: 17
User ID: U1054
Package Name: Dubai
Package Type: Desert Safari
Package Price: 150500
Name: Aditya Yedurkar
Email: aditya.yedurkar@gmail.com
DOB: 2004-01-23

localhost says
Bill generated successfully!

OK

Invoice

User Information

User ID:	U1054
Name:	Aditya Yedurkar
Email:	aditya.yedurkar@gmail.com
Address:	Parel, Mumbai

Package Information

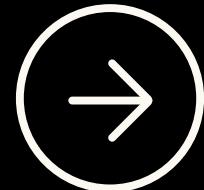
Package ID:	17
Package Name:	Dubai
Location:	Dubai , United Arab Emirates
Price:	INR 150500

From:	2024-05-01
To:	2024-05-15

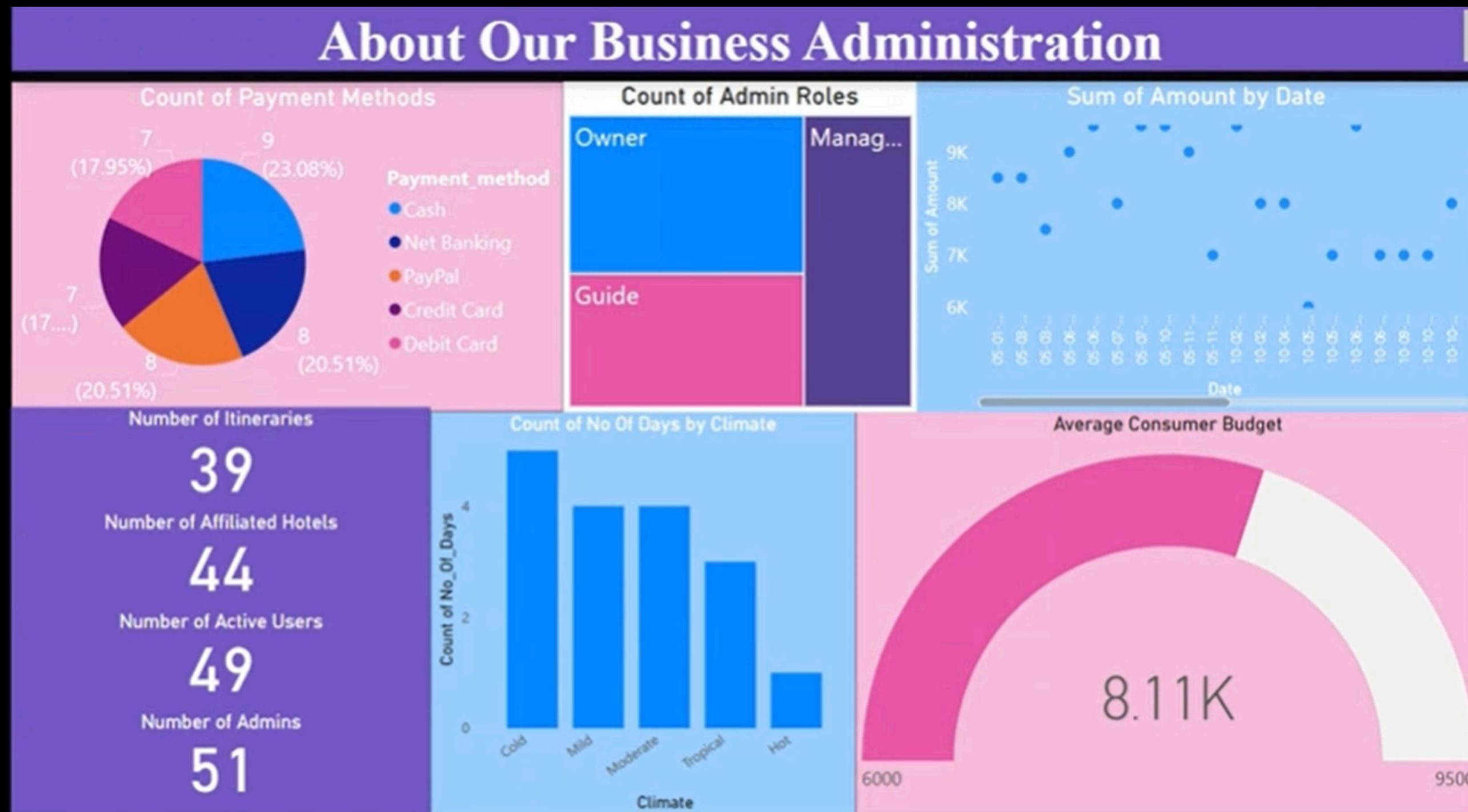
Additional Comments

Nice Booking Experience!

Total: INR 2107000

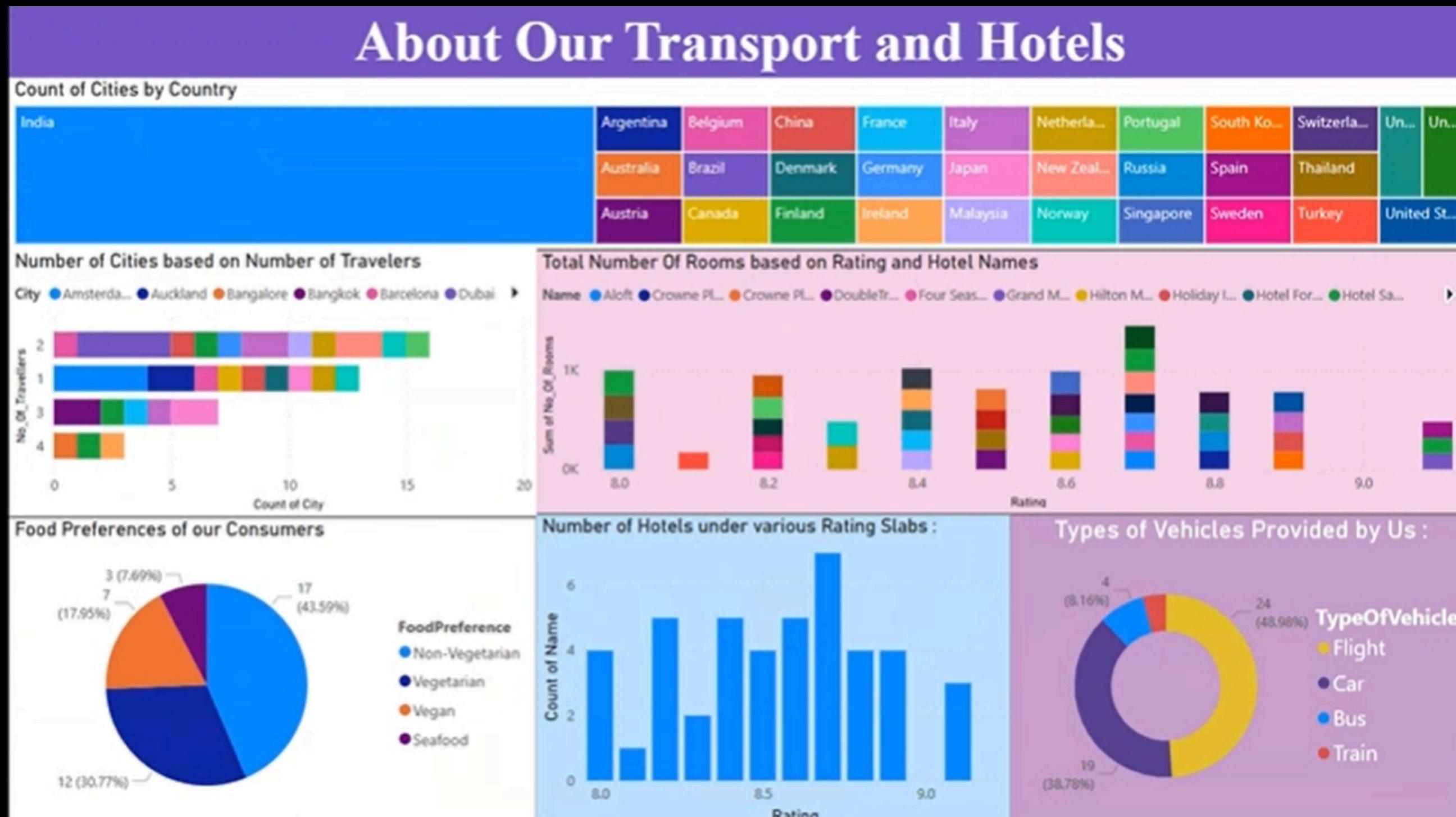


POWER BI REPORTS

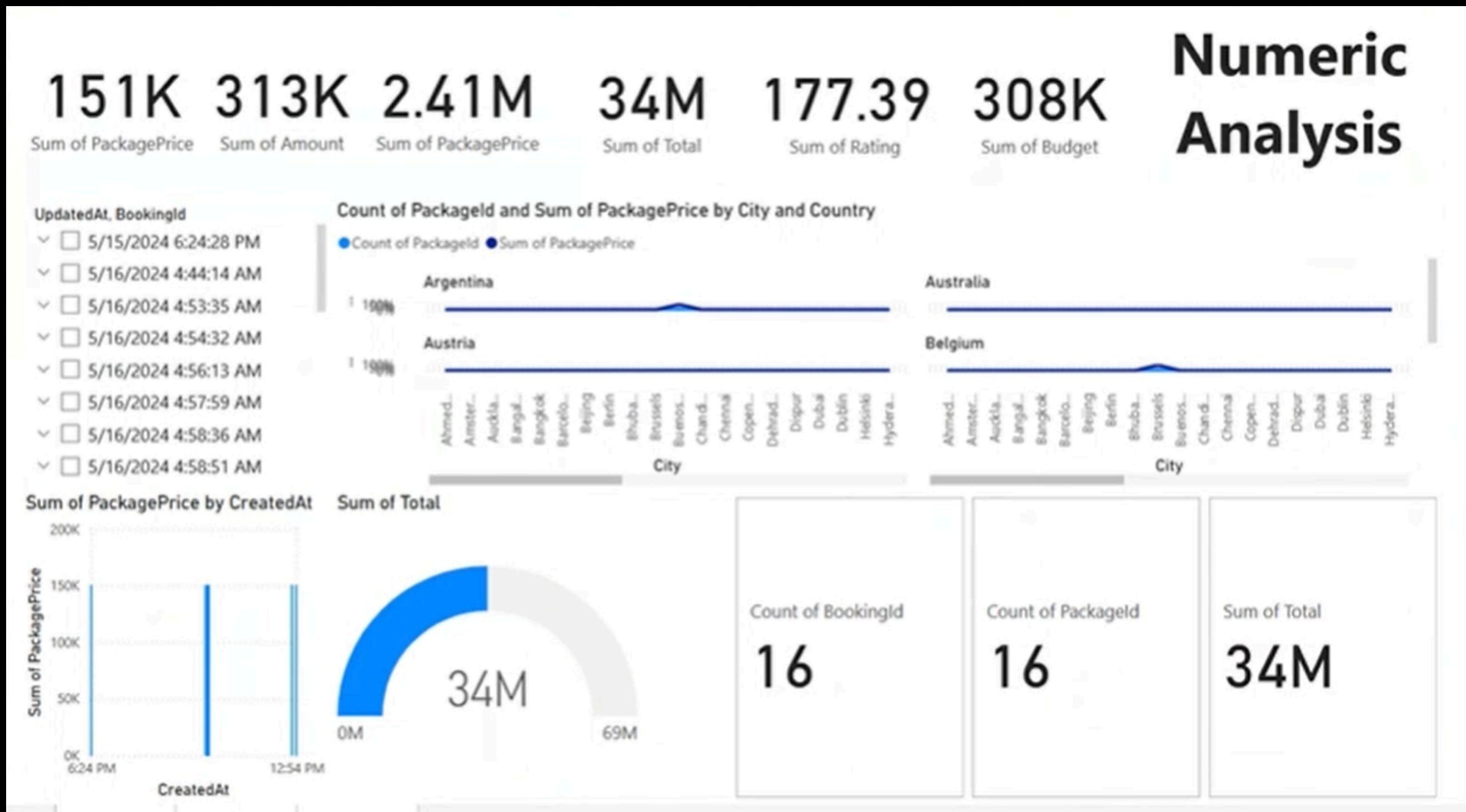


PAGE 1

POWER BI REPORTS



POWER BI REPORTS



PAGE 3

MEET THE TEAM



ADITI CHHAJED
221081009



ADITYA YEDURKAR
22180076



THANK YOU

for your time and attention

Presented by

Aditi Chhajed 221081009

Aditya Yedurkar 221080076