

DBMS PROJECT A2

Normalize the Schema upto 3NF/BCNF to optimize the database, and Write the Questions to be Asked to your solution.

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Travel Management Project

This project is aimed at managing travel-related activities such as user profiles, accommodations, transportation, itineraries, and billing. It provides a comprehensive database schema to store and manage information efficiently.

AIM:

Normalize the Schema upto 3NF/BCNF to optimize the database, and Write the Questions to be Asked to your solution.

Boyce–Codd normal form (BCNF or 3.5NF):

Schema Overview

The schema consists of the following tables:

Admin: Stores information about administrators who manage the system.

Admin_id (Primary Key): Unique identifier for the administrator.

Name: Name of the administrator.

Password: Password for authentication.

Role: Role of the administrator.

User: Contains details of registered users.

User_Id (Primary Key): Unique identifier for the user.

Name: Name of the user.

Password: Password for authentication.

Dob: Date of birth of the user.

PhoneNo: Phone number of the user.

Email_Id: Email address of the user.

Address: Address of the user.

UserProfile: Stores additional profile information for users.

User_Id (Primary Key, Foreign Key): References the User table.

Blood_group: Blood group of the user.

UserAccount: Manages user accounts and their financial details.

Account_Id (Primary Key): Unique identifier for the account.

Doj: Date of joining.

Wallet: Wallet balance.

User_Id (Foreign Key): References the User table.

TransportType: Contains information about available transportation options.

Transport_id (Primary Key): Unique identifier for the transportation.

NameOfProvider: Name of the transportation provider.

Fare: Fare for the transportation.

TypeOfVehicle: Type of vehicle.

Hotel: Stores details of hotels available for accommodation.

Hotel_id (Primary Key): Unique identifier for the hotel.

Name: Name of the hotel.

No_Of_Rooms: Number of rooms available.

Cost: Cost per night.

Address: Address of the hotel.

Contact: Contact information of the hotel.

Rating: Rating of the hotel.

TouristPlaces: Contains information about tourist places.

Id (Primary Key): Unique identifier for the place.

Country: Country of the tourist place.

State: State of the tourist place.

City: City of the tourist place.

Itinerary: Manages travel itineraries planned by users.

Itinerary_id (Primary Key): Unique identifier for the itinerary.

Title: Title of the itinerary.

Budget: Budget for the itinerary.

Country: Country of travel.

State: State of travel.

City: City of travel.

Rating: Rating of the itinerary.

No_Of_Travellers: Number of travelers.

FoodPreference: Food preference during travel.

Transport_id (Foreign Key): References the TransportType table.

Hotel_id (Foreign Key): References the Hotel table.

Date_Of_Travel: Date of travel.

UserPreference: Stores preferences set by users for their travel.

User_Id (Primary Key, Foreign Key): References the User table.

Budget: Budget preference.

Country: Preferred country for travel.

Climate: Preferred climate for travel.

Rating: Rating preference for accommodations.

No_Of_Travellers: Number of travelers.

FoodPreference: Food preference during travel.

Transport_Preference: Preferred mode of transport.

No_Of_Days: Duration of travel.

Bill: Manages billing details for user transactions.

Bill_no (Primary Key): Unique identifier for the bill.

Amount: Amount of the bill.

Date: Date of the bill.

Payment_method: Payment method used.

User_Id (Foreign Key): References the User table.

```
CREATE TABLE Admin (  
    Admin_id VARCHAR PRIMARY KEY,  
    Name VARCHAR,  
    Password VARCHAR,  
    Role VARCHAR  
);  
  
CREATE TABLE User (  
    User_Id VARCHAR PRIMARY KEY,  
    Name VARCHAR,  
    Password VARCHAR,  
    Dob DATE,  
    PhoneNo VARCHAR,  
    Email_Id VARCHAR,  
    Address VARCHAR  
);  
  
CREATE TABLE UserProfile (  
    User_Id VARCHAR PRIMARY KEY,  
    Blood_group VARCHAR,  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)  
);  
  
CREATE TABLE UserAccount (  
    Account_Id VARCHAR PRIMARY KEY,
```

```
Doj DATE,
Wallet DECIMAL,
User_Id VARCHAR,
FOREIGN KEY (User_Id) REFERENCES User(User_Id)
);

CREATE TABLE TransportType (
    Transport_id VARCHAR PRIMARY KEY,
    NameOfProvider VARCHAR,
    Fare DECIMAL,
    TypeOfVehicle VARCHAR
);

CREATE TABLE Hotel (
    Hotel_id VARCHAR PRIMARY KEY,
    Name VARCHAR,
    No_Of_Rooms INT,
    Cost DECIMAL,
    Address VARCHAR,
    Contact VARCHAR,
    Rating DECIMAL
);

CREATE TABLE TouristPlaces (
    Id VARCHAR PRIMARY KEY,
    Country VARCHAR,
    State VARCHAR,
    City VARCHAR
);

CREATE TABLE Itinerary (
    Itinerary_id VARCHAR PRIMARY KEY,
    Title VARCHAR,
    Budget DECIMAL,
    Country VARCHAR,
    State VARCHAR,
    City VARCHAR,
    Rating DECIMAL,
    No_Of_Travellers INT,
    FoodPreference VARCHAR,
    Transport_id VARCHAR,
    Hotel_id VARCHAR,
    Date_Of_Travel DATE,
    FOREIGN KEY (Transport_id) REFERENCES TransportType(Transport_id),
    FOREIGN KEY (Hotel_id) REFERENCES Hotel(Hotel_id)
);

CREATE TABLE UserPreference (
    User_Id VARCHAR PRIMARY KEY,
    Budget DECIMAL,
    Country VARCHAR,
    Climate VARCHAR,
    Rating DECIMAL,
    No_Of_Travellers INT,
    FoodPreference VARCHAR,
    Transport_Preference VARCHAR,
    No_Of_Days INT,
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)
);

CREATE TABLE Bill (
    Bill_no VARCHAR PRIMARY KEY,
    Amount DECIMAL,
    Date DATE,
    Payment_method VARCHAR,
    User_Id VARCHAR,
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)
);
```

Data:

User, User_Profile, UserAccount, User_preference

Id	uName	DoB	Phone(+91)	email	location	Blood Group
001	Rahul Sharma	3/4/90	981654320	rs Sharma@yahoo	Born	AT
002	Priya Patel	03/9/95	8732109541	patel31@yahoo	Born	B-
003	Aranya Gupta	15/12/88	9912487600	gupta31@gmail	Bangalore	AB+
004	Meha Sharma	21/5/90	8449210651	mesa@yahoo	Hyderabad	O-
005	Vikram Kumar	15/4/98	79876887714	vikram@gmail	Delhi	A-
006	Neha Verma	5/6/89	94631947245	jainA@yahoo	Pune	B+
007	Aayan Jain	20/11/96	9824968860	Ayan@gmail	Nashik	OT
008	Aayan Sharma	21/5/90	9824968860	Ayan@gmail	Bihar	AB-
009	Saanvi Verma	3/8/95	8767727070	SaanviJain@gmail	Kerala	AT
010	Siddhi Joshi	18/3/92	8688512704	Sid@gmail	Pune	O-
011	Sudarshan Jain	30/12/94	9757316679	Jain2@gmail	Kashmir	O-
012	Sudarshan Pillai	14/1/97	9137367323	Sudan@gmail	Kutuh	OT
013	Janhvi Mehta	21/2/12	9926186669	Suds2@yahoo	Parel	AB
014	Aarya Sharma	1/6/96	8767727070	Jaon@gmail	Assam	B
015	Pranita Pillai	1/9/99	9920314021	Jaon@gmail	Tamil Nadu	O-
016	Ashaan Joshi	4/4/93	8743054910	Joshi3@gmail	Indone	AT
017	Aditya Sharma	18/6/90	8369536592	adi@gmail	Jaispur	B
018	Nirhi Kulkarni	23/1/97	7304694873	nirhi1@yahoo	Ahmedabad	A
019	Pooja Verma	29/1/97	9920314021	pojave@gmail	Hyderabad	O
020	Krish Verma	24/5/91	9137367373	krish@gmail	Bangalore	C
021	Myna Gupta	19/2/96	9926186669	myrna@gmail	Kochi	F
022	Niyati Singh	13/2/99	8767727070	niyati@gmail	Gumaha	I
023	Advik Patel	26/3/02	9824968860	addvik@yahoo	Nbida	I
024	Aanya Patole	28/1/99	9137367373	aanya@gmail	Ujjain	I
025	Zara Sharma	18/8/90	8688812704	zara@yahoo	Omri 32a	I
026	Avni Patil	24/1/92	99876019275	avvu@yahoo	Thakhand	I
027	Tanvi Shah	19/8/92	9601743828	tan2@yahoo	Prayag	I
028	Diya Mehta	23/11/97	8767727070	dya mehta@gmail	Agia	I
029	Aashvi Kamdar	18/8/90	9926186669	ash@gmail	Varanasi	I
030	Anushka Jain	04/4/93	+91 9757316679	anusha@gmail	Kolhapur	I

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	39000	Ind	N	V	FE
A-	22/6/21	0	100070	Belgium	Y(4)	V	FE
B+	17/7/21	0	90030	Dubai	N	V	FB
O+	7/8/21	1150	35000	Paris	N	Jain	T
AB-	20/9/21	0	28000	Ukraine	N	V	FE
A+	25/10/21	450	24000	Newyork	N	V	FB
O-	11/11/21	0	50000	Delhi	N	N	T
O-	12/12/21	1900	26000	Denmark	N	N	FB
O+	21/1/22	0	22000	Dublin	N	V	FE
AB+	7/2/22	0	55000	Nottingham	Y(2)	V	FE
B+	5/11/22	0	75000	California	N	N	FE
O+	30/6/23	0	90000	Iceland	N	V	FE
AB-	18/7/23	450	45000	Ireland	N	N	FE
B-	26/8/23	1050	39000	UK	N	N	FE
A+	11/10/23	650	53000	Germany	Y(5)	V	FE
O+	11/11/23	0	80000	France	N	V	FE
O+	23/11/23	0	60000	Berlin	N	V	FE
B+	11/12/23	0	75000	Birmingham	Y(4)	N	FE
A+	3/2/24	0	65000	Aus	Y(5)	V	FE
B-	24/2/24	1350	95000	China	Y(6)	N	FE
AB-	18/5/24	0	90000	Russia	Y(4)	N	FE
O-	18/6/24	0	100,000	Moscow	N	N	FE
A+	1/8/24	1950	150000	Singapore	N	N	FB
B+	2/9/24	0	130000	Qatar	N	N	FB
O+	22/10/24	2250	25000	Abu Dhabi	Y(5)	N	FE
A+	14/11/24	0	100000	Sri Lanka	Y(2)	N	FB
B-	29/12/24	0	150000	Washington	Y(4)	N	FB
B+	31/12/24	0	220000	Kurdsk	Y(4)	J	FB

Remaining data in Soft Format:

Tourist Places

Id	Country	State	City
TP1001	India	Maharashtra	Mumbai
TP1002	India	Delhi	New Delhi

TP1003	India	Karnataka	Bangalore
TP1004	India	Tamil Nadu	Chennai
TP1005	India	West Bengal	Kolkata
TP1006	India	Rajasthan	Jaipur
TP1007	India	Telangana	Hyderabad
TP1008	India	Uttar Pradesh	Lucknow
TP1009	India	Goa	Panaji
TP1010	India	Himachal Pradesh	Shimla
TP1011	India	Gujarat	Ahmedabad
TP1012	India	Punjab	Chandigarh
TP1013	India	Kerala	Thiruvananthapuram
TP1014	India	Assam	Dispur
TP1015	India	Uttarakhand	Dehradun
TP1016	India	Bihar	Patna
TP1017	India	Haryana	Chandigarh
TP1018	India	Odisha	Bhubaneswar
TP1019	India	Chhattisgarh	Raipur
TP1020	India	Jharkhand	Ranchi
TP1021	France	Île-de-France	Paris
TP1022	United States	California	Los Angeles
TP1023	United Kingdom	England	London
TP1024	Italy	Lazio	Rome
TP1025	Japan	Tokyo	Tokyo
TP1026	Spain	Catalonia	Barcelona
TP1027	Brazil	São Paulo	São Paulo
TP1028	Russia	Moscow	Moscow
TP1029	Turkey	Istanbul	Istanbul
TP1030	Malaysia	Kuala Lumpur	Kuala Lumpur
TP1031	Australia	New South Wales	Sydney
TP1032	Canada	Ontario	Toronto
TP1033	China	Beijing	Beijing
TP1034	Singapore	Central Singapore	Singapore
TP1035	Germany	Berlin	Berlin
TP1036	United Arab Emirates	Dubai	Dubai
TP1037	South Korea	Seoul	Seoul
TP1038	Thailand	Bangkok	Bangkok
TP1039	Netherlands	North Holland	Amsterdam
TP1040	Switzerland	Zurich	Zurich

TP1041	Austria	Vienna	Vienna
TP1042	Argentina	Buenos Aires	Buenos Aires
TP1043	Denmark	Capital Region of Denmark	Copenhagen
TP1044	Sweden	Stockholm	Stockholm
TP1045	New Zealand	Auckland	Auckland
TP1046	Portugal	Lisbon	Lisbon
TP1047	Norway	Oslo	Oslo
TP1048	Finland	Uusimaa	Helsinki
TP1049	Belgium	Brussels-Capital Region	Brussels
TP1050	Ireland	Leinster	Dublin

Itinerary

Project : Itinerary Management System
REG.NO : 221080076 & 221081009

COURSE INSTRUCTOR : Dr V.B Nikam

Itinerary_id	Title	Budget	Country	State	City	Rating	No_Of_Travellers	FoodPreference	Transport	Hotel_id	Date_Of_Travel
IT1001	Exploring	5000	India	Maharash	Mumbai	4.2	2	Vegetarian	FL1001	HT1001	15-05-24
IT1002	Sightseein	8000	France	ÃŽle-de-Fr	Paris	4.5	1	Non-Vegetaria	FL1021	HT1041	20-06-24
IT1003	Weekend	6000	India	Goa	Panaji	4.6	4	Seafood	FL1002	HT1009	10-07-24
IT1004	Business T	10000	United Sta	New York	New York	4.8	1	Non-Vegetaria	FL1023	HT1051	05-08-24
IT1005	Adventure	7000	Japan	Tokyo	Tokyo	4.7	2	Vegetarian	FL1025	HT1024	15-09-24
IT1006	Exploring	7500	Spain	Catalonia	Barcelona	4.4	2	Non-Vegetaria	FL1026	HT1063	20-10-24
IT1007	Holiday in	8500	Australia	New South	Sydney	4.6	2	Seafood	FL1031	HT1055	10-11-24
IT1008	Exploring	7000	Thailand	Bangkok	Bangkok	4.3	1	Vegetarian	FL1038	HT1054	05-12-24
IT1009	Weekend	8000	Netherlan	North Holl	Amsterdam	4.5	1	Non-Vegetaria	FL1039	HT1069	20-01-25
IT1010	Relaxing ir	9000	Switzerlan	Zurich	Zurich	4.7	2	Vegetarian	FL1040	HT1070	15-02-25
IT1011	Cultural To	5500	India	Delhi	New Delhi	4.4	3	Vegetarian	FL1003	HT1002	10-03-25
IT1012	Skiing in O	10000	Norway	Oslo	Oslo	4.8	2	Non-Vegetaria	FL1047	HT1047	05-04-25
IT1013	Hiking in F	7500	Finland	Uusimaa	Helsinki	4.6	1	Vegan	FL1048	HT1048	20-05-25
IT1014	Exploring	9000	United Ara	Dubai	Dubai	4.5	2	Non-Vegetaria	FL1036	HT1036	10-06-25
IT1015	Sightseein	8000	Italy	Lazio	Rome	4.7	1	Non-Vegetaria	FL1024	HT1056	05-07-25
IT1016	Weekend	6000	India	Karnataka	Bangalore	4.3	4	Seafood	FL1004	HT1003	15-08-25
IT1017	Exploring	8500	Turkey	Istanbul	Istanbul	4.4	2	Vegetarian	FL1029	HT1029	20-09-25
IT1018	Adventure	7500	South Kor	Seoul	Seoul	4.6	1	Non-Vegetaria	FL1037	HT1037	10-10-25
IT1019	Holiday in	9000	Spain	Catalonia	Barcelona	4.7	2	Vegetarian	FL1026	HT1063	05-11-25
IT1020	Cultural To	6000	France	ÃŽle-de-Fr	Paris	4.5	3	Vegan	FL1021	HT1041	20-12-25
IT1021	Exploring	8500	Russia	Moscow	Moscow	4.6	2	Non-Vegetaria	FL1028	HT1028	15-01-26
IT1022	Weekend	6500	India	Goa	Panaji	4.4	4	Vegetarian	FL1002	HT1009	10-02-26
IT1023	Skiing in S	10000	Sweden	Stockholm	Stockholm	4.8	2	Non-Vegetaria	FL1044	HT1044	05-03-26
IT1024	Relaxing ir	9500	United Ara	Dubai	Dubai	4.7	2	Vegan	FL1036	HT1036	20-04-26
IT1025	Hiking in A	8000	New Zeala	Auckland	Auckland	4.5	1	Vegetarian	FL1045	HT1045	10-05-26
IT1026	Cultural To	6500	Thailand	Bangkok	Bangkok	4.3	3	Non-Vegetaria	FL1038	HT1054	05-06-26
IT1027	Weekend	8500	Netherlan	North Holl	Amsterdam	4.6	1	Vegetarian	FL1039	HT1069	20-07-26
IT1028	Adventure	9000	Spain	Catalonia	Barcelona	4.7	2	Seafood	FL1026	HT1063	15-08-26
IT1029	Holiday in	7500	Japan	Tokyo	Tokyo	4.4	1	Non-Vegetaria	FL1025	HT1024	10-09-26
IT1030	Sightseein	8000	United Kin	England	London	4.6	1	Vegetarian	FL1023	HT1052	05-10-26
IT1031	Exploring	8500	France	ÃŽle-de-Fr	Paris	4.7	2	Vegan	FL1021	HT1041	20-11-26
IT1032	Weekend	6500	Russia	Moscow	Moscow	4.3	4	Non-Vegetaria	FL1028	HT1028	10-12-26
IT1033	Cultural To	9000	Italy	Lazio	Rome	4.5	3	Non-Vegetaria	FL1024	HT1056	05-01-27
IT1034	Adventure	7500	Turkey	Istanbul	Istanbul	4.6	1	Vegetarian	FL1029	HT1029	20-02-27
IT1035	Holiday in	8000	South Kor	Seoul	Seoul	4.4	2	Vegan	FL1037	HT1037	15-03-27
IT1036	Skiing in S	10000	Sweden	Stockholm	Stockholm	4.8	2	Non-Vegetaria	FL1044	HT1044	10-04-27
IT1037	Relaxing ir	9500	United Ara	Dubai	Dubai	4.7	2	Vegan	FL1036	HT1036	20-05-27
IT1038	Hiking in A	8000	New Zeala	Auckland	Auckland	4.5	1	Vegetarian	FL1045	HT1045	10-06-27
IT1039	Cultural To	6500	Thailand	Bangkok	Bangkok	4.3	3	Non-Vegetaria	FL1038	HT1054	05-07-27
IT1040	Weekend	8500	Netherlan	North Holl	Amsterdam	4.6	1	Vegetarian	FL1039	HT1069	20-08-27
IT1041	Adventure	7500	France	ÃŽle-de-Fr	Paris	4.4	2	Non-Vegetaria	FL1021	HT1041	15-09-27
IT1042	Exploring	8000	United Sta	California	Los Angele	4.6	1	Vegan	FL1022	HT1052	10-10-27
IT1043	Holiday in	8500	United Kin	England	London	4.7	2	Vegetarian	FL1023	HT1052	05-11-27
IT1044	Weekend	6500	Italy	Lazio	Rome	4.3	3	Non-Vegetaria	FL1024	HT1056	20-12-27
IT1045	Cultural To	9000	Japan	Tokyo	Tokyo	4.5	2	Vegan	FL1025	HT1024	15-01-28
IT1046	Sightseein	7500	Spain	Catalonia	Barcelona	4.6	1	Vegetarian	FL1026	HT1063	10-02-28
IT1047	Adventure	8000	Brazil	SÃ£o Paul	SÃ£o Paul	4.7	2	Non-Vegetaria	FL1027	HT1027	05-03-28
IT1048	Weekend	6500	Russia	Moscow	Moscow	4.3	3	Vegetarian	FL1028	HT1028	20-04-28
IT1049	Holiday in	9500	United Ara	Dubai	Dubai	4.6	2	Non-Vegetaria	FL1036	HT1036	10-05-28
IT1050	Exploring	8500	Netherlan	North Holl	Amsterdam	4.5	1	Vegetarian	FL1039	HT1069	05-06-28

Hotels

Hotel_id	Name	No_Of_Rooms	Cost	Address	Rating
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H1001	Grand Hyatt	200	5000	Mumbai	8.5
H1002	Taj Palace	150	6000	Delhi	9
H1003	Marriott Marquis	180	5500	Bengaluru	8.7
H1004	Hilton	220	4800	Chennai	8.2
H1005	InterContinental	190	5200	Kolkata	8.4
H1006	The Oberoi	210	5100	Jaipur	8.8
H1007	ITC Grand Chola	240	4700	Hyderabad	8.3
H1008	Leela Palace	230	4900	Pune	8.6
H1009	Radisson Blu	170	5700	Ahmedabad	8.1
H1010	Hyatt Regency	200	5400	Lucknow	8.9
H1011	The Ritz-Carlton	250	4600	Goa	8
H1012	Novotel	160	6200	Chandigarh	9.1
H1013	Four Seasons	190	5300	Nagpur	8.7
H1014	Westin	210	5100	Indore	8.4
H1015	Shangri-La	180	5800	Varanasi	8.6
H1016	Le Meridien	220	5000	Dehradun	8.2
H1017	DoubleTree	200	5600	Bhopal	8.5
H1018	Crowne Plaza	190	5900	Gurugram	8.8
H1019	JW Marriott	240	4800	Ludhiana	8.3
H1020	Trident	230	5200	Raipur	8.7
H1021	The Leela	170	5700	Vadodara	8.2
H1022	Holiday Inn	200	5400	Ranchi	8.9
H1023	Park Hyatt	250	4600	Visakhapatnam	8
H1024	Grand Mercure	160	6200	Puducherry	9.1
H1025	Aloft	190	5300	Kochi	8.7
H1026	Hotel Formule1	210	5100	Mysuru	8.4
H1027	ibis	180	5800	Thiruvananthapuram	8.6
H1028	The Lalit	220	5000	Bhubaneswar	8.2
H1029	Radisson	200	5600	Aurangabad	8.5
H1030	Renaissance	190	5900	Surat	8.8
H1031	ITC Maurya	230	5200	Patna	8.7
H1032	The Westin	170	5700	Jodhpur	8.2
H1033	Taj Bengal	200	5400	Kanpur	8.9
H1034	Le Méridien	250	4600	Gwalior	8
H1035	Hotel Sahara Star	160	6200	Amritsar	9.1
H1036	The Gateway Hotel	190	5300	Nashik	8.7
H1037	Hyatt Pune	210	5100	Kolhapur	8.4
H1038	Hilton Mumbai	180	5800	Jabalpur	8.6
H1039	Taj Lands End	220	5000	Allahabad	8.2
H1040	The St. Regis	200	5600	Rajkot	8.5
H1041	Le Méridien	190	5900	Guwahati	8.8
H1042	The Ritz-Carlton	230	5200	Rourkela	8.7
H1043	Oberoi Grand	170	5700	Hisar	8.2
H1044	ITC Sonar	200	5400	Ramgarh	8.9

H1045	The Oberoi Cecil	250	4600	Kharagpur	8
H1046	Hotel Trident	200	5500	Panchkula	8.4
H1047	The Lalit Great Eastern	220	5200	Siliguri	8.6
H1048	Crowne Plaza Jaipur Tonk Road	210	5300	Jaipur	8.5
H1049	Hyatt Ahmedabad	190	5700	Ahmedabad	8.7
H1050	Marriott Hotel Kochi	180	5800	Kochi	8.9

Admins

Admin_id	Name	Password	Role
A1001	Ravi Kumar	h3L#Z\$p!@	Owner
A1002	Priya Patel	y%2&nJ@9!	Manager
A1003	Amit Singh	\$e*4Xb8#Z	Guide
A1004	Deepika Sharma	Q7^T@g*1K	Owner
A1005	Rajesh Gupta	5@hY*o#mP	Manager
A1006	Neha Khan	8k\$Q@jPw!	Guide
A1007	Vikram Malhotra	w&3\$%kS1J	Owner
A1008	Anjali Desai	6R*t#xG9@	Manager
A1009	Sandeep Verma	b2!mP8Lx&	Guide
A1010	Sunita Reddy	y\$F&5u@4m	Owner
A1011	Rahul Iyer	P^4uK&w8#	Manager
A1012	Pooja Choudhury	9L!s\$zN7#	Guide
A1013	Arun Khanna	2@B8w*3%q	Owner
A1014	Shilpa Joshi	u@1H9V!s%	Manager
A1015	Manoj Kapoor	5T@n6%y#J	Guide
A1016	Sneha Sharma	#9x@7g4P!	Owner
A1017	Rajendra Prasad	p6Q&wN1!%	Manager
A1018	Nisha Singh	K\$8h!q*4T	Guide
A1019	Kishan Patel	#3S@jW6x!	Owner
A1020	Swati Menon	@1z*Y#6sJ	Manager
A1021	Arjun Deshpande	t\$J7H&m3@	Guide
A1022	Anita Chatterjee	v4X#n%6K@	Owner
A1023	Vivek Rastogi	&y5r@K8J!	Manager
A1024	Ananya Das	8L@k4%wD&	Guide
A1025	Suresh Tiwari	u8#p2K@5m	Owner

A1026	Meena Singh	5H@p8zX2k	Manager
A1027	Harish Sharma	p&L@8b3n%	Guide
A1028	Geeta Patel	#4U@n3z%w	Owner
A1029	Alok Dubey	q7V#n9z*W	Manager
A1030	Kavita Shah	e&4Y8j@1X	Guide
A1031	Anand Joshi	3F@z!5y6x	Owner
A1032	Madhuri Gupta	9U@z\$7y1%	Manager
A1033	Nitin Rao	7@v!mK2W%	Guide
A1034	Pallavi Mohan	4F@x8L!7Y	Owner
A1035	Ganesh Iyer	#8D@f5r1K	Manager
A1036	Sarita Sharma	y6@p8s%b#	Guide
A1037	Prakash Patel	%3k@9q2N*	Owner
A1038	Jyoti Mishra	5X@y4K!v3	Manager
A1039	Kunal Khurana	8T@m4K&p!	Guide
A1040	Sarika Singh	6Z#n@2g7P	Owner
A1041	Aditya Mehra	2G@m!4y7J	Manager
A1042	Shubha Agarwal	9N#m5q6K@	Guide
A1043	Rahul Tiwari	3T@g9n8Q\$	Owner
A1044	Neelam Rao	8M%r@5s9Z	Manager
A1045	Sanjay Gupta	5P%w!9x8H	Guide
A1046	Juhi Patel	v\$6t@8j3Q	Owner
A1047	Amar Singh	#3X@v9m7G	Manager
A1048	Suman Sharma	6H@x3L&4Z	Guide
A1049	Deepak Verma	9K@q3m2Jv	Owner
A1050	Rajni Kapoor	4R@m5J&8W	Manager

Bill

Bill_no	Amount	Date	Payment_method	User_Id
BL1001	5000	15-05-24	Credit Card	USR1001
BL1002	7000	20-06-24	Debit Card	USR1002
BL1003	6000	10-07-24	Net Banking	USR1003
BL1004	8000	05-08-24	PayPal	USR1004
BL1005	6500	15-09-24	Cash	USR1005

BL1006	7500	20-10-24	Credit Card	USR1006
BL1007	8500	10-11-24	Debit Card	USR1007
BL1008	7000	05-12-24	Net Banking	USR1008
BL1009	9000	20-01-25	PayPal	USR1009
BL1010	8000	15-02-25	Cash	USR1010
BL1011	6000	10-03-25	Credit Card	USR1011
BL1012	10000	05-04-25	Debit Card	USR1012
BL1013	7500	20-05-25	Net Banking	USR1013
BL1014	9500	10-06-25	PayPal	USR1014
BL1015	8000	05-07-25	Cash	USR1015
BL1016	6500	15-08-25	Credit Card	USR1016
BL1017	8500	20-09-25	Debit Card	USR1017
BL1018	7000	10-10-25	Net Banking	USR1018
BL1019	9000	05-11-25	PayPal	USR1019
BL1020	7500	20-12-25	Cash	USR1020
BL1021	7000	15-01-26	Credit Card	USR1021
BL1022	9500	10-02-26	Debit Card	USR1022
BL1023	8500	05-03-26	Net Banking	USR1023
BL1024	8000	20-04-26	PayPal	USR1024
BL1025	6000	10-05-26	Cash	USR1025
BL1026	9000	05-06-26	Credit Card	USR1026
BL1027	7500	20-07-26	Debit Card	USR1027
BL1028	8500	15-08-26	Net Banking	USR1028

BL1029	7000	10-09-26	PayPal	USR1029
BL1030	9500	05-10-26	Cash	USR1030
BL1031	8000	20-11-26	Credit Card	USR1031
BL1032	7000	10-12-26	Debit Card	USR1032
BL1033	8500	05-01-27	Net Banking	USR1033
BL1034	7500	20-02-27	PayPal	USR1034
BL1035	9000	15-03-27	Cash	USR1035
BL1036	8000	10-04-27	Credit Card	USR1036
BL1037	6500	20-05-27	Debit Card	USR1037
BL1038	7000	10-06-27	Net Banking	USR1038
BL1039	9500	05-07-27	PayPal	USR1039
BL1040	8500	20-08-27	Cash	USR1040
BL1041	7500	15-09-27	Credit Card	USR1041
BL1042	8000	10-10-27	Debit Card	USR1042
BL1043	7000	05-11-27	Net Banking	USR1043
BL1044	9500	20-12-27	PayPal	USR1044
BL1045	8500	15-01-28	Cash	USR1045
BL1046	8000	10-02-28	Credit Card	USR1046
BL1047	7500	05-03-28	Debit Card	USR1047
BL1048	9000	20-04-28	Net Banking	USR1048
BL1049	7000	10-05-28	PayPal	USR1049
BL1050	9500	05-06-28	Cash	USR1050

QUERIES :

1. Admin Table: Who are the administrators registered in the system, along with their details?	
2. User Table: Can you provide the details of all registered users?	
3. UserProfile Table: What are the blood groups of the users registered in the system?	
4. UserAccount Table: Could you list all user accounts along with their associated details such as date of joining and wallet balance?	
5. TransportType Table: What are the different types of transportation available in the system, along with their fare and vehicle type?	
6. Hotel Table: Please provide the details of all hotels including their names, number of rooms, cost, and contact information.	
7. TouristPlaces Table: Which tourist places are currently registered in the system, and where are they located?	
8. Itinerary Table: Can you show me the details of all planned itineraries, including the destinations, budgets, and travel dates?	
9. UserPreference Table: What are the preferences of users regarding budget, climate, food, etc., for their travel plans?	
10. Bill Table: Could you provide the details of all bills including the amount, date, and payment method used by users?	
11. Show administrators with the role 'Superadmin' and registered before January 1, 2023.	
12. List administrators with the role 'Admin' and whose name starts with 'J'.	
13. Display administrators with the role 'Moderator' and registered in 2022.	
14. Provide details of users who registered in 2023 and are from the United States.	
15. Show users with email addresses ending with '@gmail.com' and having a phone number starting with '+1'.	
16. List users with names containing 'John' and registered in the last 30 days.	
17. Display blood groups of users aged between 25 and 35 from Canada.	
18. Show blood groups of users who prefer hot climates and have a budget over ₹1000.	
19. Provide blood groups of users with email addresses containing 'example.com' and residing in New York.	
20. List user accounts with a wallet balance over ₹500 and registered after January 1, 2022.	
21. Provide blood groups of users aged between 25 and 35 from the city 'New York' and with a budget over ₹1000.	
22. Show user accounts with a wallet balance over ₹500, registered after January 1, 2022, and from the city 'Los Angeles'.	
23. Display transportation options with fares less than ₹50 and vehicle type 'Bus', provided by 'XYZ Transport'.	
24. Provide details of hotels with a rating above 4 stars, located in 'New York', and with more than 100 rooms.	
25. Show tourist places located in countries with names containing 'Island' and cities starting with 'P'.	
26. List planned itineraries with a budget between ₹500 and ₹1000, traveling to 'Italy', for dates after January 1, 2023.	
27. Display user preferences for destinations with a rating above 4 stars and a budget over ₹1000, traveling with 2 travelers.	
28. Provide details of bills paid via credit card and PayPal, and the amount exceeding ₹100, paid by users from the country 'USA'.	
29. List bills paid via credit card or PayPal, and the amount less than ₹50, paid by users from the city 'New York'.	
30. Show administrators registered in 2022 or earlier.	
31. List users who registered in the last 90 days.	
32. Provide details of users from the country 'UK' or 'Australia' with phone numbers starting with '+44'.	
33. Display blood groups of users with email addresses ending with '@yahoo.com'.	
34. Show user accounts with a wallet balance less than ₹50 and registered before January 1, 2022.	
35. Provide transportation options with fares greater than ₹100 and vehicle type 'Car'.	
36. List hotels with a rating of 3 stars and located in 'London' or 'Paris'.	
37. Display tourist places located in 'Italy' or 'Spain' with a city name starting with 'R'.	
38. Show planned itineraries with a budget over ₹2000 and traveling to 'Japan'.	
39. Provide user preferences for destinations with a rating of 5 stars and a budget between ₹1000 and ₹2000.	
40. Show hotels with a rating of 4 stars or higher and located in either 'New York' or 'Los Angeles'.	
41. List tourist places located in countries starting with 'S' and cities starting with 'M'.	
42. Provide itineraries with a budget less than ₹1000 and traveling to 'France' or 'Germany'.	

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REG.NO : 221080076 & 221081009

COURSE INSTRUCTOR : Dr V.B Nikam

43. Display user preferences for destinations with a budget over ₹1500 and a rating between 3 and 4.	
44. Show bills paid via PayPal with an amount greater than ₹200 and made by users with names containing 'Smith'.	
45. Provide administrators who are either 'Admin' or 'Superadmin' and registered after January 1, 2023.	
46. List users who prefer 'Cold' climate, have a budget over ₹1000, and travel with more than 3 travelers.	
47. Display transport options provided by 'XYZ Transport' with a fare less than ₹50 and vehicle type 'Bus'.	
48. Show hotels with a rating above 4 stars, located in 'Tokyo' or 'Sydney' with more than 100 rooms.	
49. Provide tourist places located in countries with names containing 'Republic' and cities starting with 'S'.	
50. List itineraries with a budget between ₹500 and ₹1000, traveling to 'Germany' with a rating of 4 stars.	
51. Display user preferences for destinations with a budget over ₹1000, a rating above 3 stars, and no preference for food.	
52. Show hotels with a rating of 3 stars and located in 'London' or 'Paris'.	
53. Provide tourist places located in countries with names containing 'Island' and cities containing 'Beach'.	
54. List itineraries with a budget less than ₹500 and traveling to 'Spain' with a rating of 3 stars.	
55. Display user preferences for destinations with a budget over ₹2000 and a rating above 4 stars, traveling with more than 2 travelers.	
56. Show bills paid via 'Bank Transfer' with an amount less than ₹100 and made by users with email addresses ending with '@hotmail.com'.	
57. Provide administrators who are 'Moderator' and registered before January 1, 2022, in the country 'USA'.	
58. List users who prefer 'Tropical' climate and have a budget over ₹1500, but travel with 2 or fewer travelers.	
59. Display transport options provided by 'ABC Transport' with a fare less than ₹100 and vehicle type 'Train'.	
60. Show hotels with a rating above 4 stars and located in 'London' or 'Rome', with more than 100 rooms.	
61. Provide tourist places located in countries with names containing 'Island' and cities containing 'Beach'.	
62. List itineraries with a budget less than ₹500 and traveling to 'Spain' with a rating of 3 stars.	
63. Display user preferences for destinations with a budget over ₹2000 and a rating above 4 stars, traveling with more than 2 travelers.	
64. Show bills paid via 'Bank Transfer' with an amount less than ₹100 and made by users with email addresses ending with '@hotmail.com'.	
65. Provide administrators who are 'Moderator' and registered before January 1, 2022, in the country 'USA'.	
66. List users who prefer 'Tropical' climate and have a budget over ₹1500, but travel with 2 or fewer travelers.	
67. Display transport options provided by 'ABC Transport' with a fare less than ₹100 and vehicle type 'Train'.	
68. Show hotels with a rating above 4 stars and located in 'London' or 'Rome', with more than 100 rooms.	
69. Show user accounts with a wallet balance over ₹1000 and registered after January 1, 2022.	
70. Provide details of bills paid via credit card and PayPal, and the amount exceeding ₹100, paid by users from the country 'USA'.	
71. List bills paid via credit card or PayPal, and the amount less than ₹50, paid by users from the city 'New York'.	
72. Show administrators registered in 2022 or earlier.	
73. List users who registered in the last 90 days.	
74. Provide details of users from the country 'UK' or 'Australia' with phone numbers starting with '+44'.	
75. Display blood groups of users with email addresses ending with '@yahoo.com'.	
76. Show user accounts with a wallet balance less than ₹50 and registered before January 1, 2022.	
77. Provide transportation options with fares greater than ₹100 and vehicle type 'Car'.	
78. List hotels with a rating of 3 stars and located in 'London' or 'Paris'.	
79. Display tourist places located in 'Italy' or 'Spain' with a city name starting with 'R'.	
80. Show planned itineraries with a budget over ₹2000 and traveling to 'Japan'.	
81. Provide user preferences for destinations with a rating of 5 stars and a budget between ₹1000 and ₹2000.	
82. Show hotels with a rating of 4 stars or higher and located in either 'New York' or 'Los Angeles'.	
83. List tourist places located in countries starting with 'S' and cities starting with 'M'.	
84. Provide itineraries with a budget less than ₹1000 and traveling to 'France' or 'Germany'.	
85. Display user preferences for destinations with a budget over ₹1500 and a rating between 3 and 4.	
86. Show bills paid via PayPal with an amount greater than ₹200 and made by users with names containing 'Smith'.	

87. Provide administrators who are either 'Admin' or 'Superadmin' and registered after January 1, 2023.
88. List users who prefer 'Cold' climate, have a budget over ₹1000, and travel with more than 3 travelers.
89. Display transport options provided by 'XYZ Transport' with a fare less than ₹50 and vehicle type 'Bus'.
90. Show hotels with a rating above 4 stars, located in 'Tokyo' or 'Sydney' with more than 100 rooms.
91. Provide tourist places located in countries with names containing 'Republic' and cities starting with 'S'.
92. List itineraries with a budget between ₹500 and ₹1000, traveling to 'Germany' with a rating of 4 stars.
93. Display user preferences for destinations with a budget over ₹1000, a rating above 3 stars, and no preference for food.
94. Show hotels with a rating of 3 stars and located in 'London' or 'Paris'.
95. Provide tourist places located in countries with names containing 'Island' and cities containing 'Beach'.
96. List itineraries with a budget less than ₹500 and traveling to 'Spain' with a rating of 3 stars.
97. Display user preferences for destinations with a budget over ₹2000 and a rating above 4 stars, traveling with more than 2 travelers.
98. Show bills paid via 'Bank Transfer' with an amount less than ₹100 and made by users with email addresses ending with '@hotmail.com'.
99. Provide administrators who are 'Moderator' and registered before January 1, 2022, in the country 'USA'.
100. List users who prefer 'Tropical' climate and have a budget over ₹1500, but travel with 2 or fewer travelers.
101. Display transport options provided by 'ABC Transport' with a fare less than ₹100 and vehicle type 'Train'.
102. Show hotels with a rating above 4 stars and located in 'London' or 'Rome', with more than 100 rooms.

SQL:

```
-- 1. Retrieve all records from the Admin table
SELECT * FROM Admin;

-- 2. Retrieve all records from the User table
SELECT * FROM User;

-- 3. Retrieve all records from the User_Profile table
SELECT * FROM User_Profile;

-- 4. Retrieve all records from the User_Account table
SELECT * FROM User_Account;

-- 5. Transport_Type Table: Retrieve information about different types of transportation available in the system, along
with their fare and vehicle type
SELECT * FROM Transport_Type;

-- 6. Hotel Table: Retrieve details of all hotels including their names, number of rooms, cost, and contact information
SELECT * FROM Hotel;

-- 7. Tourist_Places Table: Retrieve information about tourist places currently registered in the system, along with their
locations
SELECT * FROM Tourist_Places;

-- 8. Itinerary Table: Retrieve details of all planned itineraries, including the destinations, budgets, and travel dates
SELECT * FROM Itinerary;

-- 9. User_Preference Table: Retrieve information about user preferences regarding budget, climate, food, etc., for their
travel plans
SELECT * FROM User_Preference;

-- 10. Bill Table: Retrieve details of all bills including the amount, date, and payment method used by users
SELECT * FROM Bill;

-- 11. Show administrators with the role 'Owner' and registered before January 1, 2023
SELECT * FROM Admin WHERE Role = 'Owner' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) < '2023-01-01';

-- 12. List administrators with the role 'Admin' and whose name starts with 'J'
SELECT * FROM Admin WHERE Role = 'Manager' AND Name LIKE 'J%';

-- 13. Display administrators with the role 'Guide' and registered between January 1, 2020, and December 31, 2024
```



```
SELECT * FROM Admin WHERE Role = 'Guide' and DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) BETWEEN '2020-01-01' AND '2024-12-31';

-- 14. Provide details of users who registered in 2023
SELECT * FROM User where name like "A%"

-- 15. Show users with email addresses ending with '@apple.com'
SELECT * FROM User WHERE Email_Id LIKE '%@apple.com'

-- 16. List users with names containing 'Ananya' and registered in the last 30 days
SELECT * FROM User WHERE Name LIKE '%Ananya%' AND Dob >= CURDATE() - INTERVAL 30 YEAR;

-- 17. Retrieve all records from the Admin table where the role is 'Owner' and registered before January 1, 2023
SELECT * FROM Admin WHERE Role = 'Owner' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) < '2023-01-01';

-- 18. Retrieve all records from the Admin table where the role is 'Admin' and the name starts with 'A'
SELECT * FROM Admin WHERE Role = 'Owner' AND Name LIKE 'A%';

-- 19. Retrieve all records from the Admin table (repeated query)
SELECT * FROM Admin WHERE Role = 'Manager' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) BETWEEN '2020-01-01' AND '2024-12-31';

-- 20. Retrieve all records from the User table where the name starts with 'A'
SELECT * FROM User WHERE Name LIKE 'A%'

-- 21. Retrieve all records from the User table (repeated query)
SELECT * FROM User WHERE Email_Id LIKE '%@gmail.com' AND Name LIKE '%Ananya%';

-- 22. Retrieve all records from the User table (repeated query)
SELECT * FROM User WHERE Dob >= CURDATE() - INTERVAL 30 DAY;

-- 23. Retrieve all records from the Hotel table
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms >= 100;

-- 24. Retrieve all records from the Tourist_Places table
SELECT * FROM Tourist_Places WHERE Country LIKE '%India%' AND City LIKE 'S%';

-- 25. Retrieve all records from the Itinerary table
SELECT * FROM Itinerary WHERE Budget BETWEEN 500 AND 10000 AND Country = 'India' AND Rating >= 4;

-- 26. Retrieve all records from the User_Preference table
SELECT * FROM User_Preference WHERE Budget > 1000 AND Rating > 3 AND FoodPreference = 'Seafood';

-- 27. Retrieve all records from the Hotel table (repeated query)
SELECT * FROM Hotel WHERE Rating > 4.5

-- 28. Retrieve all records from the Tourist_Places table (repeated query)
SELECT * FROM Tourist_Places WHERE Country LIKE '%India%';

-- 29. Retrieve all records from the Itinerary table (repeated query)
SELECT * FROM Itinerary WHERE Budget < 50000 AND Country = 'United States' AND Rating > 3;

-- 30. Retrieve all records from the User_Preference table (repeated query)
SELECT * FROM User_Preference WHERE Budget > 2000 AND Rating > 4 AND No_Of_Travellers > 2;

SELECT * FROM bill WHERE Payment_method = 'Credit Card' AND Amount > 5000 ;

-- 32. Retrieve all records from the Admin table
SELECT * FROM Admin WHERE Role = 'Guide' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) <= '2022-12-31';

-- 33. Retrieve all records from the User_Preference table
SELECT * FROM User_Preference WHERE Climate = 'Tropical' AND Budget > 1500 AND No_Of_Travellers <= 2;

-- 34. Retrieve all records from the Transport_Type table
SELECT * FROM Transport_Type WHERE Fare > 100 AND TypeOfVehicle = 'Flight' AND NameOfProvider = 'Emirates';

-- 35. Retrieve all records from the Hotel table (repeated query)
```

```
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms > 100;

-- 36. List hotels with a rating of 3 stars and located in 'Delhi' or 'Pune'.
SELECT * FROM Hotel WHERE Rating > 3

-- 37. Display tourist places located in 'Italy' or 'Spain' with a city name starting with 'R'.
SELECT * FROM Tourist_Places WHERE (Country = 'Italy' OR Country = 'Spain') AND City LIKE 'R%';

-- 38. Show planned itineraries with a budget over ?2000 and traveling to 'Japan'.
SELECT * FROM Itinerary WHERE Budget > 2000 AND Country = 'Japan';

-- 39. Provide user preferences for destinations with a rating of 5 stars and a budget between ?1000 and ?2000.
SELECT * FROM User_Preference WHERE Rating > 4 AND Budget BETWEEN 8000 AND 9500;

-- 40. Show hotels with a rating of 4 stars or higher and located in either 'New York' or 'Los Angeles'.
SELECT * FROM Hotel WHERE Rating >= 4

-- 41. List tourist places located in countries starting with 'U' and cities starting with 'L'.
SELECT * FROM Tourist_Places WHERE Country LIKE 'U%' AND City LIKE 'L%';

-- 42. Provide itineraries with a budget more than ?1000 and traveling to 'France' or 'Germany'.
SELECT * FROM Itinerary WHERE Budget > 1000 AND (Country = 'France' OR Country = 'Germany');

-- 43. Display user preferences for destinations with a budget over ?1500 and a rating between 3 and 4.
SELECT * FROM User_Preference WHERE Budget > 1500 AND Rating BETWEEN 3 AND 5;

-- 44. Show bills paid via PayPal with an amount greater than ?200
SELECT * FROM Bill WHERE Payment_method = 'PayPal' AND Amount > 200;

-- 45. Provide administrators who are either 'Admin' or 'Owner' and registered after January 1, 2023.
SELECT * FROM Admin WHERE (Role = 'Owner' OR Role = 'Manager') AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d'))
> '2023-01-01';

-- 46. List users who prefer 'Cold' climate, have a budget over ?1000, and travel with more than 3 travelers.
SELECT * FROM User_Preference WHERE Climate = 'Cold' AND Budget > 1000 AND No_Of_Travellers > 3;

-- 47. Display transport options provided by 'Volvo' with a fare less than ?50 and vehicle type 'Bus'.
SELECT * FROM Transport_Type WHERE NameOfProvider = 'Scania' AND Fare > 500 AND TypeOfVehicle = 'Bus';

-- 48. Show hotels with a rating above 4 stars, located in 'Tokyo' or 'Sydney' with more than 100 rooms.
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms > 100;

-- 49. Provide tourist places located in countries with names containing 'United Kingdom' and cities starting with 'S'.
SELECT * FROM Tourist_Places WHERE Country LIKE 'U%' AND City LIKE 'D%';

-- 50. List itineraries with a budget more than ?5000, traveling to the 'United Kingdom' with a rating above 4 stars.
SELECT * FROM Itinerary WHERE Budget > 5000 AND Country = 'United Kingdom' AND Rating > 4;

-- 51. Display user preferences for destinations with a budget over ?1000, a rating above 3 stars, and no preference for
food.
SELECT * FROM User_Preference WHERE Budget > 1000 AND Rating > 3 AND FoodPreference = 'Vegetarian';

-- 52. Show hotels with a rating of 4 stars
SELECT * FROM Hotel WHERE Rating > 4

-- 53. Provide tourist places located in countries with names containing 'India' and cities containing 'Beach'.
SELECT * FROM Tourist_Places WHERE Country LIKE '%United Kingdom%' AND City LIKE '%London%';

-- 54. List itineraries with a budget less than ?500 and traveling to 'Spain' with a rating of 3 stars.
SELECT * FROM Itinerary WHERE Budget > 5000 AND Country LIKE 'U%' AND Rating > 4.5;

-- 55. Display user preferences for destinations with a budget over ?2000 and a rating above 4 stars, traveling with more
than 2 travelers.
SELECT * FROM User_Preference WHERE Budget > 2000 AND Rating > 4 AND No_Of_Travellers > 2;

-- 56. Show bills paid via 'Credit Card' with an amount less than ?100 and made by users with email addresses ending with
'@gmail.com'.
SELECT * FROM Bill WHERE Payment_method = 'PayPal'
```

```
-- 57. Provide administrators who are 'Manager' and registered before January 1, 2022, in the country 'USA'.
SELECT * FROM Admin WHERE Role = 'Guide' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) < '2022-01-01'

-- 58. List users who prefer 'Tropical' climate and have a budget over ?1500, but travel with 2 or fewer travelers.
SELECT * FROM User_Preference WHERE Climate = 'Tropical' AND Budget > 1500 AND No_Of_Travellers <= 2;

-- 59. Display transport options provided by 'Emirates' with a fare Less than ?100 and vehicle type 'Train'.
SELECT * FROM Transport_Type WHERE NameOfProvider = 'Emirates' AND Fare > 10000 AND TypeOfVehicle = 'Flight';

-- 60. Show hotels with a rating above 4 stars and located in 'London' or 'Rome', with more than 100 rooms.
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms > 100;

-- 61. Provide tourist places located in countries with names containing 'India' and cities containing 'Beach'.
SELECT * FROM Tourist_Places WHERE Country LIKE '%United Kingdom%' AND City LIKE '%London%';

-- 62. List itineraries with a budget Less than ?500 and traveling to 'Spain' with a rating of 3 stars.
SELECT * FROM Itinerary WHERE Budget < 500 AND Country = 'United States' AND Rating > 3;

-- 63. Display user preferences for destinations with a budget over ?2000 and a rating above 4 stars, traveling with more than 2 travelers.
SELECT * FROM User_Preference WHERE Budget > 2000 AND Rating > 4 AND No_Of_Travellers > 2;

-- 64. Show bills paid via 'Credit Card' with an amount less than ?100 and made by users with email addresses ending with '@gmail.com'.
SELECT * FROM Bill WHERE Payment_method = 'Credit Card' AND Amount > 100

-- 65. Provide administrators who are 'Manager' and registered before January 1, 2022, in the country 'USA'.
SELECT * FROM Admin WHERE Role = 'Manager' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) < '2022-01-01'

-- 66. List users who prefer 'Tropical' climate and have a budget over ?1500, but travel with 2 or fewer travelers.
SELECT * FROM User_Preference WHERE Climate = 'Tropical' AND Budget > 1500 AND No_Of_Travellers <= 2;

-- 67. Display transport options provided by 'Emirates' with a fare Less than ?100 and vehicle type 'Train'.
SELECT * FROM Transport_Type WHERE NameOfProvider = 'Emirates' AND Fare < 100 AND TypeOfVehicle = 'Train';

-- 68. Show hotels with a rating above 4 stars and located in 'London' or 'Rome', with more than 100 rooms.
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms > 100;

-- 69. Show user accounts with a wallet balance over ?1000 and registered after January 1, 2022.
SELECT * FROM User_Account WHERE Wallet > 1000 AND Doj > '2022-01-01';

-- 70. Provide details of bills paid via credit card and PayPal, and the amount exceeding ?100, paid by users from the country 'USA'.
SELECT * FROM Bill WHERE (Payment_method = 'Credit card' OR Payment_method = 'PayPal') AND Amount > 100 AND User_Id IN (SELECT User_Id FROM User WHERE Country = 'USA');

-- 71. List bills paid via credit card or PayPal, and the amount Less than ?50.
SELECT * FROM Bill WHERE Payment_method = 'Credit card' OR Payment_method = 'PayPal' AND Amount < 50

-- 72. Show administrators registered in 2022 or earlier.
SELECT * FROM Admin WHERE DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) <= '2022-12-31';

-- 73. List users who registered in the last 90 days.
SELECT * FROM User WHERE DATEDIFF(CURDATE(), Doj) <= 90;

-- 74. Provide details of users from the country 'UK' or 'Australia' with phone numbers starting with '+44'.
SELECT * FROM User WHERE (Country = 'United Kingdom' OR Country = 'Australia')

-- 75. Display blood groups of users with email addresses ending with '@yahoo.com'.
SELECT Blood_Group FROM User WHERE Email_Id LIKE '%@yahoo.com%';

-- 76. Show user accounts with a wallet balance less than ?50 and registered before January 1, 2022.
SELECT * FROM User_Account WHERE Wallet < 50 AND Doj < '2022-01-01';

-- 77. Provide transportation options with fares greater than ?100 and vehicle type 'Car'.
SELECT * FROM Transport_Type WHERE Fare > 100 AND TypeOfVehicle = 'Car';

-- 78. List hotels with a rating of 3 stars and located in 'London' or 'Paris'.
SELECT * FROM Hotel WHERE Rating > 3
```

```
-- 79. Display tourist places located in 'Italy' or 'Spain' with a city name starting with 'R'.
SELECT * FROM Tourist_Places WHERE (Country = 'France' OR Country = 'Russia') AND City LIKE 'R%';

-- 80. Show planned itineraries with a budget over ?2000 and traveling to 'Japan'.
SELECT * FROM Itinerary WHERE Budget > 2000 AND Country = 'Japan';

-- 81. Provide user preferences for destinations with a rating of 5 stars and a budget between ?1000 and ?2000.
SELECT * FROM User_Preference WHERE Rating = 5 AND Budget BETWEEN 1000 AND 2000;

-- 82. Show hotels with a rating of 4 stars or higher and located in either 'New York' or 'Los Angeles'.
SELECT * FROM Hotel WHERE Rating >= 4

-- 83. List tourist places located in countries starting with 'S' and cities starting with 'M'.
SELECT * FROM Tourist_Places WHERE Country LIKE 'S%' AND City LIKE 'M%';

-- 84. Provide itineraries with a budget less than ?1000 and traveling to 'France' or 'Germany'.
SELECT * FROM Itinerary WHERE Budget < 1000 AND (Country = 'France' OR Country = 'United States');

-- 85. Display user preferences for destinations with a budget over ?1500 and a rating between 3 and 4.
SELECT * FROM User_Preference WHERE Budget > 1500 AND Rating BETWEEN 3 AND 4;

-- 86. Show bills paid via PayPal with an amount greater than ?200 and made by users with names containing 'Smith'.
SELECT * FROM Bill WHERE Payment_method = 'PayPal' AND Amount > 200

-- 87. Provide administrators who are either 'Admin' or 'Owner' and registered after January 1, 2023.
SELECT * FROM Admin WHERE (Role = 'Admin' OR Role = 'Owner') AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) >
'2023-01-01';

-- 88. List users who prefer 'Cold' climate, have a budget over ?1000, and travel with more than 3 travelers.
SELECT * FROM User_Preference WHERE Climate = 'Cold' AND Budget > 1000 AND No_Of_Travellers > 3;

-- 89. Display transport options provided by 'Volvo' with a fare less than ?50 and vehicle type 'Bus'.
SELECT * FROM Transport_Type WHERE NameOfProvider = 'Volvo' AND Fare > 50 AND TypeOfVehicle = 'Bus';

-- 90. Show hotels with a rating above 4 stars, located in 'Tokyo' or 'Sydney' with more than 100 rooms.
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms > 100;

-- 91. Provide tourist places located in countries with names containing 'United Kingdom' and cities starting with 'S'.
SELECT * FROM Tourist_Places WHERE Country LIKE '%United Kingdom%' AND City LIKE 'S%';

-- 92. List itineraries with a budget between ?500 and ?1000, traveling to 'Germany' with a rating of 4 stars.
SELECT * FROM Itinerary WHERE Budget BETWEEN 500 AND 1000 AND Country = 'United States' AND Rating >= 4;

-- 93. Display user preferences for destinations with a budget over ?1000, a rating above 3 stars, and no preference for food.
SELECT * FROM User_Preference WHERE Budget > 1000 AND Rating > 3 AND FoodPreference = 'Vegetarian';

-- 94. Show hotels with a rating of 4 stars
SELECT * FROM Hotel WHERE Rating > 4

-- 95. Provide tourist places located in countries with names containing 'India' and city 'Mumbai'.
SELECT * FROM Tourist_Places WHERE Country LIKE '%India%' AND City LIKE '%Mumbai%';

-- 96. List itineraries with a budget less than ?500 and traveling to 'India' with a rating of 3 stars.
SELECT * FROM Itinerary WHERE Budget < 500 AND Country = 'India' AND Rating > 3;

-- 97. Display user preferences for destinations with a budget over ?2000 and a rating above 4 stars, traveling with more than 2 travelers.
SELECT * FROM User_Preference WHERE Budget > 2000 AND Rating > 4 AND No_Of_Travellers > 2;

-- 98. Show bills paid via 'Credit Card' with an amount less than ?100 and made by users with email addresses ending with '@gmail.com'.
SELECT * FROM Bill WHERE Payment_method = 'PayPal' AND Amount < 100

-- 99. Provide administrators who are 'Manager' and registered before January 1, 2022, in the country 'USA'.
SELECT * FROM Admin WHERE Role = 'Owner' AND DATE(STR_TO_DATE(SUBSTRING(Admin_id, 4, 6), '%y%m%d')) < '2022-01-01'

-- 100. List users who prefer 'Tropical' climate and have a budget over ?1500, but travel with 2 or fewer travelers.
```

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REG.NO : 221080076 & 221081009

COURSE INSTRUCTOR : Dr V.B Nikam

```
SELECT * FROM User_Preference WHERE Climate = 'Tropical' AND Budget > 1500 AND No_Of_Travellers <= 2;

-- 101. Display transport options provided by 'Emirates' with a fare less than 100 and vehicle type 'Train'.
SELECT * FROM Transport_Type WHERE NameOfProvider = 'Emirates' AND Fare > 100 AND TypeOfVehicle = 'Flight';

-- 102. Show hotels with a rating above 4 stars and located in 'London' or 'Rome', with more than 100 rooms.
SELECT * FROM Hotel WHERE Rating > 4 AND No_Of_Rooms > 100;
```

RESULT:

<https://gist.github.com/Aditya-y9/86e5da4d6c59a46f9ec5e714e43b6498>

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THANK YOU!