Project : Itinerary Management System **COURSE INSTRUCTOR : Dr V.B Nikam**
REG.NO : 221080076 & 221081009

DBMS Project A3

SQL to create tables, constraints and Manipulate the data for the Logical Schema you designed for your ER Data Model

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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:

SQL-DDL to create tables and constraints for the Logical Schema you designed for your ER Data Model

SQL-DML to manipulate data for the your ER Data Model

SQL-DML should explore Complex queries, Aggregate functions like Avg, group, sort etc to manipulate data for the your ER Data Model

SQL-DML should explore Nested queries, Join Queries, along with the complex queries, Aggregate functions etc to manipulate data for the your ER Data Model

Theory:

Table Creation:

Use **CREATE TABLE** statement to define tables in the database schema.
Each table should represent an entity or a relationship from the ER Data Model.
Attributes of entities become columns, while relationship cardinalities may become foreign key constraints.
Constraints:

Primary Key Constraint: Identify a unique identifier for each entity using PRIMARY KEY constraint.

Foreign Key Constraint: Establish relationships between tables using FOREIGN KEY constraint.
Unique Constraint: Ensure uniqueness of values in a column using UNIQUE constraint.
Check Constraint: Enforce domain integrity by defining conditions using CHECK constraint.
Not Null Constraint: Ensure that a column cannot contain null values using NOT NULL constraint.
Indexes:

Indexes can be created on columns to improve query performance, especially for columns frequently used in JOIN or WHERE clauses.

SELECT: This keyword is used to select data from a database. The data returned is stored in a result table, called the result-set.

CREATE TABLE: This statement is used to create a new table in a database. It requires the name of the table and the column definitions.

VARCHAR: This is a data type that can hold a variable length string. The maximum length is set in parentheses.

INSERT INTO: This statement is used to insert new data into a table. It requires the name of the table, the columns for which data is provided, and the values to be inserted.

VALUES: This keyword is used in conjunction with INSERT INTO to specify the data to be inserted into the table.

Please note that SQL is case-insensitive, which means CREATE TABLE and create table are equivalent. However, it's common practice to write SQL keywords in uppercase to distinguish them from table and column names.

AS: This keyword is used in SQL to rename a column or table with an alias.

FROM: This keyword is used in SQL to specify the table from which you want to fetch the data.

AVG(): This is an aggregate function that returns the average value of a numeric column.

COUNT(): This is an aggregate function that returns the number of rows that matches a specified criterion.

GROUP BY: This keyword is used in SQL to group rows that have the same values in specified columns into aggregated data.

MAX(): This is an aggregate function that returns the maximum value in a set of values.

MIN(): This is an aggregate function that returns the minimum value in a set of values.

ORDER BY: This keyword is used in SQL to sort the data in ascending or descending order, based on one or more columns.

DESC: This keyword is used with ORDER BY to sort the data in descending order.

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LIMIT: This keyword is used in SQL to specify the maximum number of records to return.

SUM(): This is an aggregate function that returns the total sum of a numeric column.

SQL-DDL

Database Creation:

```
CREATE TABLE admin
(
    Admin_id    VARCHAR(512),
    Name    VARCHAR(512),
    Password    VARCHAR(512),
    Role    VARCHAR(512)
);

INSERT INTO admin (Admin_id, Name, Password, Role) VALUES
    ('A1001', 'Ravi Kumar', 'h3L#Z$p!@', 'Owner'),
    ('A1002', 'Priya Patel', 'yX2&nJ@9!', 'Manager'),
    ('A1003', 'Amit Singh', '$e*4Xb#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$F8Su@4m', 'Owner'),
    ('A1011', 'Rahul Iyer', 'P^4uK&w8#', 'Manager'),
    ('A1012', 'Pooja Choudhury', '9L!s$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$8h!q*4T', 'Guide'),
    ('A1019', 'Kishan Patel', '#3S@jW6x!', 'Owner'),
    ('A1020', 'Swati Menon', '@iz*Y#6s3', 'Manager'),
    ('A1021', 'Arjun Deshpande', 't$J7H&m3@', 'Guide'),
    ('A1022', 'Anita Chatterjee', 'v4X#m%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', 'e84Y8j@1X', 'Guide'),
    ('A1031', 'Anand Joshi', '3F@z!5y6x', 'Owner'),
    ('A1032', 'Madhuri Gupta', '9U@z$7y1%', 'Manager'),
    ('A1033', 'Nitin Rao', '7@vlmK2w%', 'Guide'),
    ('A1034', 'Pallavi Mohan', '4F@x8L!7Y', 'Owner'),
    ('A1035', 'Ganesh Iyer', '#8D@f5r1K', 'Manager'),
    ('A1036', 'Sarita Sharma', 'y6@p8s%b#', 'Guide'),
    ('A1037', 'Prakash Patel', '%3k@9q2N*', 'Owner'),
    ('A1038', 'Jyoti Mishra', '5X@y4K!v3', 'Manager'),
    ('A1039', 'Kunal Khurana', '8T@m4K&p!', 'Guide'),
    ('A1040', 'Sarika Singh', 'GZ#n@2g7P', 'Owner'),
    ('A1041', 'Aditya Mehra', '2G@ml4y7J', 'Manager'),
    ('A1042', 'Shubha Agarwal', '9N#m5q6K@', 'Guide'),
    ('A1043', 'Rahul Tiwari', '3T@g9n8Q$', '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', 'G#@x3L&4Z', 'Guide'),
    ('A1049', 'Deepak Verma', '9K@q3m2Jv', 'Owner'),
    ('A1050', 'Rajni Kapoor', '4R@m5J&8W', 'Manager');




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

INSERT INTO bill (Bill_no, Amount, Date, Payment_method, User_Id) VALUES
    ('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', '9000', '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'),
```

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    ('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');




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

INSERT INTO Hotel (Hotel_id, Name, No_Of_Rooms, Cost, Address, Rating) VALUES
    ('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');




    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)
);

INSERT INTO Itinerary (Itinerary_id, Title, Budget, Country, State, City, Rating, No_Of_Travellers, FoodPreference, Transport_id, Hotel_id, Date_Of_Travel) VALUES
    ('IT1001', 'Exploring Mumbai', '5000', 'India', 'Maharashtra', 'Mumbai', '4.2', '2', 'Vegetarian', 'FL1001', 'HT1001', '15-05-24'),
    ('IT1002', 'Sightseeing in Paris', '8000', 'France', 'Île-de-France', 'Paris', '4.5', '1', 'Non-Vegetarian', 'FL1021', 'HT1041', '20-06-24'),
    ('IT1003', 'Weekend Trip to Goa', '6000', 'India', 'Goa', 'Panaji', '4.6', '4', 'Seafood', 'FL1002', 'HT1009', '10-07-24'),
    ('IT1004', 'Business Trip to New York', '10000', 'United States', 'New York', 'New York City', '4.8', '1', 'Non-Vegetarian', 'FL1023', 'HT1051', '05-08-24'),
    ('IT1005', 'Adventure in Tokyo', '7000', 'Japan', 'Tokyo', 'Tokyo', '4.7', '2', 'Vegetarian', 'FL1025', 'HT1024', '15-09-24'),
    ('IT1006', 'Exploring Barcelona', '7500', 'Spain', 'Catalonia', 'Barcelona', '4.4', '2', 'Non-Vegetarian', 'FL1026', 'HT1063', '20-10-24'),
    ('IT1007', 'Holiday in Sydney', '8500', 'Australia', 'New South Wales', 'Sydney', '4.6', '2', 'Seafood', 'FL1031', 'HT1055', '10-11-24'),
    ('IT1008', 'Exploring Bangkok', '7000', 'Thailand', 'Bangkok', 'Bangkok', '4.3', '1', 'Vegetarian', 'FL1038', 'HT1054', '05-12-24'),
    ('IT1009', 'Weekend in Amsterdam', '8000', 'Netherlands', 'North Holland', 'Amsterdam', '4.5', '1', 'Non-Vegetarian', 'FL1039', 'HT1069', '20-01-25'),
    ('IT1010', 'Relaxing in Zurich', '9000', 'Switzerland', 'Zurich', 'Zurich', '4.7', '2', 'Vegetarian', 'FL1040', 'HT1070', '15-02-25'),
    ('IT1011', 'Cultural Tour in Delhi', '5500', 'India', 'Delhi', 'New Delhi', '4.4', '3', 'Vegetarian', 'FL1003', 'HT1002', '10-03-25'),
    ('IT1012', 'Skiing in Oslo', '10000', 'Norway', 'Oslo', 'Oslo', '4.8', '2', 'Non-Vegetarian', 'FL1047', 'HT1047', '05-04-25'),
    ('IT1013', 'Hiking in Helsinki', '7500', 'Finland', 'Uusimaa', 'Helsinki', '4.6', '1', 'Vegan', 'FL1048', 'HT1048', '20-05-25'),
    ('IT1014', 'Exploring Dubai', '9000', 'United Arab Emirates', 'Dubai', 'Dubai', '4.5', '2', 'Non-Vegetarian', 'FL1036', 'HT1036', '10-06-25'),
    ('IT1015', 'Sightseeing in Rome', '8000', 'Italy', 'Lazio', 'Rome', '4.7', '1', 'Non-Vegetarian', 'FL1024', 'HT1056', '05-07-25'),
    ('IT1016', 'Weekend Trip to Bengaluru', '6000', 'India', 'Karnataka', 'Bangalore', '4.3', '4', 'Seafood', 'FL1004', 'HT1003', '15-08-25'),
    ('IT1017', 'Exploring Istanbul', '8500', 'Turkey', 'Istanbul', 'Istanbul', '4.4', '2', 'Vegetarian', 'FL1029', 'HT1029', '20-09-25'),
    ('IT1018', 'Adventure in Seoul', '7500', 'South Korea', 'Seoul', 'Seoul', '4.6', '1', 'Non-Vegetarian', 'FL1037', 'HT1037', '10-10-25'),
    ('IT1019', 'Holiday in Barcelona', '9000', 'Spain', 'Catalonia', 'Barcelona', '4.7', '2', 'Vegetarian', 'FL1026', 'HT1063', '05-11-25'),
    ('IT1020', 'Cultural Tour in Paris', '6000', 'France', 'Île-de-France', 'Paris', '4.5', '3', 'Vegan', 'FL1021', 'HT1041', '20-12-25'),
    ('IT1021', 'Exploring Moscow', '8500', 'Russia', 'Moscow', 'Moscow', '4.6', '2', 'Non-Vegetarian', 'FL1028', 'HT1028', '15-01-26'),
    ('IT1022', 'Weekend Trip to Goa', '6500', 'India', 'Goa', 'Panaji', '4.4', '4', 'Vegetarian', 'FL1002', 'HT1009', '10-02-26'),
    ('IT1023', 'Skiing in Stockholm', '10000', 'Sweden', 'Stockholm', 'Stockholm', '4.8', '2', 'Non-Vegetarian', 'FL1044', 'HT1044', '05-03-26'),
    ('IT1024', 'Relaxing in Dubai', '9500', 'United Arab Emirates', 'Dubai', 'Dubai', '4.7', '2', 'Vegan', 'FL1036', 'HT1036', '20-04-26'),
    ('IT1025', 'Hiking in Auckland', '8000', 'New Zealand', 'Auckland', 'Auckland', '4.5', '1', 'Vegetarian', 'FL1045', 'HT1045', '10-05-26'),
    ('IT1026', 'Cultural Tour in Bangkok', '6500', 'Thailand', 'Bangkok', 'Bangkok', '4.3', '3', 'Non-Vegetarian', 'FL1038', 'HT1054', '05-06-26'),
    ('IT1027', 'Weekend in Amsterdam', '8500', 'Netherlands', 'North Holland', 'Amsterdam', '4.6', '1', 'Vegetarian', 'FL1039', 'HT1069', '20-07-26'),
    ('IT1028', 'Adventure in Barcelona', '9000', 'Spain', 'Catalonia', 'Barcelona', '4.7', '2', 'Seafood', 'FL1026', 'HT1063', '15-08-26'),
    ('IT1029', 'Holiday in Tokyo', '7500', 'Japan', 'Tokyo', 'Tokyo', '4.4', '1', 'Non-Vegetarian', 'FL1025', 'HT1024', '10-09-26'),
    ('IT1030', 'Sightseeing in London', '8000', 'United Kingdom', 'England', 'London', '4.6', '1', 'Vegetarian', 'FL1023', 'HT1052', '05-10-26'),
    ('IT1031', 'Exploring Paris', '8500', 'France', 'Île-de-France', 'Paris', '4.7', '2', 'Vegan', 'FL1021', 'HT1041', '20-11-26'),
    ('IT1032', 'Weekend Trip to Moscow', '6500', 'Russia', 'Moscow', 'Moscow', '4.3', '4', 'Non-Vegetarian', 'FL1028', 'HT1028', '10-12-26'),
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    ('IT1033', 'Cultural Tour in Rome', '9000', 'Italy', 'Lazio', 'Rome', '4.5', '3', 'Non-Vegetarian', 'FL1024', 'HT1056', '05-01-27'),
    ('IT1034', 'Adventure in Istanbul', '7500', 'Turkey', 'Istanbul', 'Istanbul', '4.6', '1', 'Vegetarian', 'FL1029', 'HT1029', '20-02-27'),
    ('IT1035', 'Holiday in Seoul', '8000', 'South Korea', 'Seoul', 'Seoul', '4.4', '2', 'Vegan', 'FL1037', 'HT1037', '15-03-27'),
    ('IT1036', 'Skiing in Stockholm', '10000', 'Sweden', 'Stockholm', 'Stockholm', '4.8', '2', 'Non-Vegetarian', 'FL1044', 'HT1044', '10-04-27'),
    ('IT1037', 'Relaxing in Dubai', '9500', 'United Arab Emirates', 'Dubai', 'Dubai', '4.7', '2', 'Vegan', 'FL1036', 'HT1036', '20-05-27'),
    ('IT1038', 'Hiking in Auckland', '8000', 'New Zealand', 'Auckland', 'Auckland', '4.5', '1', 'Vegetarian', 'FL1045', 'HT1045', '10-06-27'),
    ('IT1039', 'Cultural Tour in Bangkok', '6500', 'Thailand', 'Bangkok', 'Bangkok', '4.3', '3', 'Non-Vegetarian', 'FL1038', 'HT1054', '05-07-27'),
    ('IT1040', 'Weekend in Amsterdam', '8500', 'Netherlands', 'North Holland', 'Amsterdam', '4.6', '1', 'Vegetarian', 'FL1039', 'HT1069', '20-08-27'),
    ('IT1041', 'Adventure in Paris', '7500', 'France', 'Île-de-France', 'Paris', '4.4', '2', 'Non-Vegetarian', 'FL1021', 'HT1041', '15-09-27'),
    ('IT1042', 'Exploring Los Angeles', '8000', 'United States', 'California', 'Los Angeles', '4.6', '1', 'Vegan', 'FL1022', 'HT1052', '10-10-27'),
    ('IT1043', 'Holiday in London', '8500', 'United Kingdom', 'England', 'London', '4.7', '2', 'Vegetarian', 'FL1023', 'HT1052', '05-11-27'),
    ('IT1044', 'Weekend Trip to Rome', '6500', 'Italy', 'Lazio', 'Rome', '4.3', '3', 'Non-Vegetarian', 'FL1024', 'HT1056', '20-12-27'),
    ('IT1045', 'Cultural Tour in Tokyo', '9000', 'Japan', 'Tokyo', 'Tokyo', '4.5', '2', 'Vegan', 'FL1025', 'HT1024', '15-01-28'),
    ('IT1046', 'Sightseeing in Barcelona', '7500', 'Spain', 'Catalonia', 'Barcelona', '4.6', '1', 'Vegetarian', 'FL1026', 'HT1063', '10-02-28'),
    ('IT1047', 'Adventure in São Paulo', '8000', 'Brazil', 'São Paulo', 'São Paulo', '4.7', '2', 'Non-Vegetarian', 'FL1027', 'HT1027', '05-03-28'),
    ('IT1048', 'Weekend in Moscow', '6500', 'Russia', 'Moscow', 'Moscow', '4.3', '3', 'Vegetarian', 'FL1028', 'HT1028', '20-04-28'),
    ('IT1049', 'Holiday in Dubai', '9500', 'United Arab Emirates', 'Dubai', 'Dubai', '4.6', '2', 'Non-Vegetarian', 'FL1036', 'HT1036', '10-05-28'),
    ('IT1050', 'Exploring Amsterdam', '8500', 'Netherlands', 'North Holland', 'Amsterdam', '4.5', '1', 'Vegetarian', 'FL1039', 'HT1069', '05-06-28');




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

INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1001', 'India', 'Maharashtra', 'Mumbai');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1002', 'India', 'Delhi', 'New Delhi');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1003', 'India', 'Karnataka', 'Bangalore');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1004', 'India', 'Tamil Nadu', 'Chennai');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1005', 'India', 'West Bengal', 'Kolkata');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1006', 'India', 'Rajasthan', 'Jaipur');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1007', 'India', 'Telangana', 'Hyderabad');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1008', 'India', 'Uttar Pradesh', 'Lucknow');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1009', 'India', 'Goa', 'Panaji');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1010', 'India', 'Himachal Pradesh', 'Shimla');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1011', 'India', 'Gujarat', 'Ahmedabad');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1012', 'India', 'Punjab', 'Chandigarh');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1013', 'India', 'Kerala', 'Thiruvananthapuram');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1014', 'India', 'Assam', 'Dispur');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1015', 'India', 'Uttarakhand', 'Dehradun');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1016', 'India', 'Bihar', 'Patna');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1017', 'India', 'Haryana', 'Chandigarh');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1018', 'India', 'Odisha', 'Bhubaneswar');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1019', 'India', 'Chhattisgarh', 'Raipur');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1020', 'India', 'Jharkhand', 'Ranchi');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1021', 'France', 'Île-de-France', 'Paris');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1022', 'United States', 'California', 'Los Angeles');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1023', 'United Kingdom', 'England', 'London');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1024', 'Italy', 'Lazio', 'Rome');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1025', 'Japan', 'Tokyo', 'Tokyo');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1026', 'Spain', 'Catalonia', 'Barcelona');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1027', 'Brazil', 'São Paulo', 'São Paulo');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1028', 'Russia', 'Moscow', 'Moscow');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1029', 'Turkey', 'Istanbul', 'Istanbul');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1030', 'Malaysia', 'Kuala Lumpur', 'Kuala Lumpur');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1031', 'Australia', 'New South Wales', 'Sydney');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1032', 'Canada', 'Ontario', 'Toronto');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1033', 'China', 'Beijing', 'Beijing');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1034', 'Singapore', 'Central Singapore', 'Singapore');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1035', 'Germany', 'Berlin', 'Berlin');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1036', 'United Arab Emirates', 'Dubai', 'Dubai');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1037', 'South Korea', 'Seoul', 'Seoul');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1038', 'Thailand', 'Bangkok', 'Bangkok');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1039', 'Netherlands', 'North Holland', 'Amsterdam');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1040', 'Switzerland', 'Zurich', 'Zurich');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1041', 'Austria', 'Vienna', 'Vienna');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1042', 'Argentina', 'Buenos Aires', 'Buenos Aires');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1043', 'Denmark', 'Capital Region of Denmark', 'Copenhagen');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1044', 'Sweden', 'Stockholm', 'Stockholm');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1045', 'New Zealand', 'Auckland', 'Auckland');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1046', 'Portugal', 'Lisbon', 'Lisbon');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1047', 'Norway', 'Oslo', 'Oslo');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1048', 'Finland', 'Uusimaa', 'Helsinki');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1049', 'Belgium', 'Brussels-Capital Region', 'Brussels');
INSERT INTO Tourist_Places (Id, Country, State, City) VALUES ('TP1050', 'Ireland', 'Leinster', 'Dublin');

CREATE TABLE Transport_Type
(
    Transport_id    VARCHAR(512),
    NameOfProvider  VARCHAR(512),
    Fare    DOUBLE,
    TypeOfVehicle   VARCHAR(512)
);

INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1001', 'Air India', '50000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1002', 'IndiGo', '45000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1003', 'GoAir', '40000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1004', 'SpiceJet', '42000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1005', 'Jet Airways', '55000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1006', 'Vistara', '48000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1007', 'British Airways', '60000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1008', 'Lufthansa', '70000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1009', 'Emirates', '75000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1010', 'Etihad Airways', '68000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1011', 'Qatar Airways', '72000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1012', 'First Flight', '28000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1013', 'Ola', '2500.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1014', 'Uber', '2000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1015', 'Tata Motors', '3000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1016', 'Maruti Suzuki', '2800.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1017', 'ZoomCar', '3000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1018', 'Ford', '3200.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1019', 'Honda', '2700.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1020', 'Kia Motors', '3500.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1021', 'Volvo', '1200.00', 'Bus');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1022', 'KSRTC', '1000.00', 'Bus');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1023', 'BMTC', '800.00', 'Bus');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1024', 'Scania', '1400.00', 'Bus');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1025', 'Toyota', '2900.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1026', 'Nissan', '3100.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1027', 'Hyundai', '2600.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1028', 'Mercedes-Benz', '4000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1029', 'Metro', '500.00', 'Train');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1030', 'Indian Railways', '1000.00', 'Train');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1031', 'Air India', '50000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1032', 'IndiGo', '45000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1033', 'GoAir', '40000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1034', 'SpiceJet', '42000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1035', 'Jet Airways', '55000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1036', 'Vistara', '48000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1037', 'British Airways', '60000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1038', 'Lufthansa', '70000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1039', 'Emirates', '75000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1040', 'Etihad Airways', '68000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1041', 'Qatar Airways', '72000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1042', 'First Flight', '28000.00', 'Flight');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1043', 'Ola', '2500.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1044', 'Uber', '2000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1045', 'Tata Motors', '3000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1046', 'Maruti Suzuki', '2800.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1047', 'ZoomCar', '3000.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1048', 'Ford', '3200.00', 'Car');
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1049', 'Honda', '2700.00', 'Car');
```

Project : Itinerary Management System **COURSE INSTRUCTOR : Dr V.B Nikam**

REG.NO : 221080076 & 221081009

```
INSERT INTO Transport_Type (Transport_id, NameOfProvider, Fare, TypeOfVehicle) VALUES ('T1050', 'Kia Motors', '3500.00', 'Car');

CREATE TABLE User
(
    User_Id VARCHAR(512),
    Name     VARCHAR(512),
    Password    VARCHAR(512),
    Dob VARCHAR(512),
    Email_Id    VARCHAR(512),
    Address VARCHAR(512)
);

INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1001', 'Ravi Kumar', 'h3L#Z$p!@', '15-05-90', 'ravikumar@example.com', 'Mumbai');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1002', 'Priya Patel', 'y%2&nJ@9!', '25-10-88', 'priyapatel@example.com', 'New Delhi');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1003', 'Amit Singh', '$e*4Xb8#Z', '08-03-95', 'amitsingh@example.com', 'Bangalore');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1004', 'Deepika Sharma', 'Q7^T@g*1K', '30-12-87', 'deepikasharma@example.com', 'Kolkata');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1005', 'Rajesh Gupta', '5@hY*o#mP', '18-08-90', 'rajeshgupta@example.com', 'Chennai');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1006', 'Neha Khan', '8k$Q@jPw!', '20-07-92', 'nehakhan@example.com', 'Hyderabad');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1007', 'Vikram Malhotra', 'w83$%k513', '12-06-85', 'vikrammalhotra@example.com', 'Pune');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1008', 'Anjali Desai', '6R*t#xG9@', '05-09-98', 'anjalidesai@example.com', 'Ahmedabad');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1009', 'Sandeep Verma', 'b2!mP8Lx&', '28-04-93', 'sandeepverma@example.com', 'Jaipur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1010', 'Sunita Reddy', 'y$F&5u@4m', '02-11-96', 'sunitareddy@example.com', 'Lucknow');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1011', 'Rahul Iyer', 'P^4uK&w8#', '14-02-87', 'rahuliyer@example.com', 'Kanpur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1012', 'Pooja Choudhury', '9L!s$zN7#', '30-06-89', 'poojachoudhury@example.com', 'Nagpur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1013', 'Arun Khanna', '2@B8w*3%q', '22-09-86', 'arunkhanna@example.com', 'Indore');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1014', 'Shilpa Joshi', 'u@1H9V!s%', '17-03-91', 'shilpajoshi@example.com', 'Thane');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1015', 'Manoj Kapoor', '5T@n6%y#3', '04-07-94', 'manojkapoor@example.com', 'Bhopal');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1016', 'Sneha Sharma', '#9x@7g4P!', '28-11-88', 'snehasharma@example.com', 'Visakhapatnam');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1017', 'Rajendra Prasad', 'p6Q&wN1!$', '12-12-79', 'rajendraprasad@example.com', 'Patna');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1018', 'Nisha Singh', 'nisha1997', '09-05-97', 'nishasingh@example.com', 'Ludhiana');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1019', 'Kishan Patel', 'kishan@1991', '03-08-91', 'kishanpatel@example.com', 'Agra');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1020', 'Swati Menon', 'swati#93', '17-10-93', 'swatimenon@example.com', 'Nashik');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1021', 'Arjun Deshpande', 'arjun@1998', '21-01-98', 'arjundeshpande@example.com', 'Meerut');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1022', 'Anita Chatterjee', 'anita@85', '15-04-85', 'anitachatterjee@example.com', 'Varanasi');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1023', 'Vivek Rastogi', '&y5r@K8J!', '27-09-92', 'vivekrastogi@example.com', 'Allahabad');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1024', 'Ananya Das', 'ananya1989', '31-12-89', 'ananyadas@example.com', 'Jabalpur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1025', 'Suresh Tiwari', 'suresh@97', '05-02-97', 'sureshtiwari@example.com', 'Ranchi');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1026', 'Meena Singh', 'meenak@2000', '12-06-00', 'meenasingh@example.com', 'Gwalior');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1027', 'Harish Sharma', 'harish_1994', '03-10-94', 'harishsharma@example.com', 'Jodhpur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1028', 'Geeta Patel', 'geeta78', '27-03-78', 'geetapatel@example.com', 'Raipur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1029', 'Alok Dubey', 'alok@96', '14-08-96', 'alokdubey@example.com', 'Kota');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1030', 'Kavita Shah', 'kavita#99', '07-11-99', 'kavitashah@example.com', 'Chandigarh');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1031', 'Anand Joshi', 'anand85', '19-02-85', 'anandjoshi@example.com', 'Guwahati');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1032', 'Madhuri Gupta', 'madhuri@90', '23-07-90', 'madhurigupta@example.com', 'Shimla');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1033', 'Nitin Rao', 'nitin_87', '15-09-87', 'nitinrao@example.com', 'Kochi');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1034', 'Pallavi Mohan', 'pallavi_91', '05-01-91', 'pallavimohan@example.com', 'Thiruvananthapuram');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1035', 'Ganesh Iyer', 'ganesh@95', '11-04-95', 'ganeshiyer@example.com', 'Mysore');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1036', 'Anushka Sharma', 'sharma@2001', '20-08-01', 'anushkasharma@example.com', 'Jaipur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1037', 'Rahul Khanna', 'rahul@1996', '25-12-96', 'rahulkhanna@example.com', 'New Delhi');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1038', 'Aarav Singh', 'singh@1999', '10-05-99', 'aaravsingh@example.com', 'Mumbai');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1039', 'Ishaan Mehra', 'mehra@2002', '01-04-02', 'ishaanmehra@example.com', 'Chennai');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1040', 'Aadya Gupta', 'gupta@2003', '07-11-03', 'aadyagupta@example.com', 'Kolkata');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1041', 'Aaradhya Patel', 'patel@2005', '14-09-05', 'aaradhyapatel@example.com', 'Bangalore');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1042', 'Veer Singh', 'singh@1998', '18-03-98', 'veersingh@example.com', 'Hyderabad');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1043', 'Diya Reddy', 'reddy@2004', '22-06-04', 'diyareddy@example.com', 'Pune');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1044', 'Kabir Kumar', 'kumar@2000', '30-10-00', 'kabirkumar@example.com', 'Ahmedabad');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1045', 'Aahana Sharma', 'sharma@2006', '08-02-06', 'aahanasharma@example.com', 'Jaipur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1046', 'Vihaan Khanna', 'khanna@2007', '17-07-07', 'vihaankhanna@example.com', 'Lucknow');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1047', 'Advik Patel', 'patel@2008', '24-12-08', 'advikpatel@example.com', 'Kanpur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1048', 'Misha Gupta', 'gupta@2009', '03-04-09', 'mishagupta@example.com', 'Nagpur');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1049', 'Ananya Singh', 'singh@2010', '11-08-10', 'ananyasingh@example.com', 'Indore');
INSERT INTO User (User_Id, Name, Password, Dob, Email_Id, Address) VALUES ('U1050', 'Kiaan Choudhury', 'choudhury@2011', '16-03-11', 'kiaanchoudhury@example.com', 'Thane');

CREATE TABLE User_Profile
(
    User_Id VARCHAR(512),
    Blood_group VARCHAR(512)
);

INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1001', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1002', 'O-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1003', 'B+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1004', 'AB-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1005', 'A-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1006', 'O+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1007', 'B-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1008', 'AB+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1009', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1010', 'O-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1011', 'B+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1012', 'AB-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1013', 'A-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1014', 'O+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1015', 'B-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1016', 'AB+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1017', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1018', 'O-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1019', 'B+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1020', 'AB-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1021', 'A-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1022', 'O+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1023', 'B-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1024', 'AB+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1025', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1026', 'O-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1027', 'B+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1028', 'AB-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1029', 'A-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1030', 'O+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1031', 'B-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1032', 'AB+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1033', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1034', 'O-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1035', 'B+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1036', 'AB-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1037', 'A-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1038', 'O+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1039', 'B-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1040', 'AB+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1041', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1042', 'O-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1043', 'B+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1044', 'AB-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1045', 'A-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1046', 'O+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1047', 'B-');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1048', 'AB+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1049', 'A+');
INSERT INTO User_Profile (User_Id, Blood_group) VALUES ('U1050', 'O-');

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

INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1001', '15-03-20', '5000', 'U1001');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1002', '21-08-19', '7500', 'U1002');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1003', '10-01-21', '3000', 'U1003');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1004', '05-05-22', '4500', 'U1004');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1005', '30-11-23', '6000', 'U1005');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1006', '17-07-20', '4000', 'U1006');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1007', '25-12-19', '5500', 'U1007');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1008', '02-08-21', '6500', 'U1008');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1009', '14-09-22', '7000', 'U1009');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1010', '03-04-23', '8000', 'U1010');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1011', '19-11-20', '3500', 'U1011');
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INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1012', '27-05-19', '4800', 'U1012');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1013', '08-03-21', '5200', 'U1013');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1014', '12-10-22', '6800', 'U1014');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1015', '01-07-23', '4200', 'U1015');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1016', '30-01-20', '5700', 'U1016');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1017', '18-06-19', '6100', 'U1017');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1018', '25-09-21', '4600', 'U1018');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1019', '08-12-22', '7300', 'U1019');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1020', '14-02-23', '3800', 'U1020');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1021', '20-05-20', '5000', 'U1021');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1022', '11-10-19', '6400', 'U1022');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1023', '03-07-21', '3000', 'U1023');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1024', '19-08-22', '5500', 'U1024');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1025', '07-01-23', '4700', 'U1025');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1026', '24-04-20', '6200', 'U1026');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1027', '15-09-19', '5400', 'U1027');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1028', '28-11-21', '4900', 'U1028');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1029', '05-06-22', '6800', 'U1029');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1030', '11-08-23', '5100', 'U1030');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1031', '09-02-20', '4500', 'U1031');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1032', '14-07-19', '5900', 'U1032');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1033', '29-10-21', '7000', 'U1033');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1034', '17-03-22', '4300', 'U1034');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1035', '22-05-23', '6500', 'U1035');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1036', '03-09-20', '4800', 'U1036');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1037', '06-04-19', '5400', 'U1037');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1038', '25-12-21', '5200', 'U1038');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1039', '18-02-22', '4600', 'U1039');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1040', '11-03-23', '6900', 'U1040');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1041', '28-06-20', '3900', 'U1041');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1042', '05-11-19', '5700', 'U1042');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1043', '18-08-21', '4800', 'U1043');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1044', '01-07-22', '6200', 'U1044');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1045', '14-09-23', '5500', 'U1045');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1046', '22-03-20', '5000', 'U1046');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1047', '12-08-19', '6600', 'U1047');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1048', '27-01-21', '4300', 'U1048');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1049', '09-04-22', '7100', 'U1049');
INSERT INTO User_Account (Account_Id, Doj, Wallet, User_Id) VALUES ('A1050', '15-06-23', '5400', 'U1050');

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
);

INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1011', '7500', 'Italy', 'Moderate', '4.5', '2', 'Non-Vegetarian', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1012', '8500', 'South Korea', 'Mild', '4.4', '1', 'Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1013', '9000', 'Germany', 'Moderate', '4.7', '2', 'Seafood', 'Flight', '9');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1014', '7000', 'Brazil', 'Tropical', '4.6', '2', 'Non-Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1015', '8000', 'Russia', 'Cold', '4.3', '1', 'Vegan', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1016', '9500', 'New Zealand', 'Mild', '4.8', '2', 'Non-Vegetarian', 'Flight', '10');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1017', '6000', 'Sweden', 'Cold', '4.2', '4', 'Seafood', 'Train', '5');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1018', '7000', 'Norway', 'Cold', '4.6', '2', 'Vegetarian', 'Train', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1019', '8500', 'Denmark', 'Cold', '4.4', '1', 'Non-Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1020', '8000', 'Argentina', 'Mild', '4.5', '2', 'Vegetarian', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1021', '7500', 'Portugal', 'Moderate', '4.3', '1', 'Vegan', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1022', '9000', 'Finland', 'Cold', '4.7', '2', 'Non-Vegetarian', 'Flight', '9');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1023', '8500', 'United Kingdom', 'Mild', '4.6', '1', 'Non-Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1024', '7000', 'Switzerland', 'Moderate', '4.5', '1', 'Vegetarian', 'Train', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1025', '9500', 'Ireland', 'Mild', '4.8', '2', 'Seafood', 'Flight', '10');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1026', '8000', 'Austria', 'Moderate', '4.4', '2', 'Vegan', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1027', '7500', 'Singapore', 'Tropical', '4.3', '1', 'Non-Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1028', '7000', 'Malaysia', 'Tropical', '4.6', '2', 'Non-Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1029', '9000', 'China', 'Mild', '4.7', '2', 'Seafood', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1030', '8000', 'Turkey', 'Moderate', '4.5', '1', 'Vegetarian', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1031', '8500', 'Maldives', 'Tropical', '4.6', '2', 'Vegan', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1032', '7500', 'Greece', 'Moderate', '4.4', '1', 'Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1033', '9000', 'Sri Lanka', 'Tropical', '4.7', '2', 'Non-Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1034', '8500', 'Philippines', 'Tropical', '4.5', '1', 'Vegan', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1035', '7000', 'Egypt', 'Hot', '4.3', '1', 'Non-Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1036', '9500', 'Peru', 'Mild', '4.6', '2', 'Seafood', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1037', '8000', 'Chile', 'Mild', '4.4', '2', 'Vegetarian', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1038', '7500', 'Costa Rica', 'Tropical', '4.3', '1', 'Non-Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1039', '9000', 'Canada', 'Cold', '4.7', '2', 'Vegan', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1040', '8500', 'Iceland', 'Cold', '4.6', '1', 'Non-Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1041', '7000', 'Scotland', 'Mild', '4.5', '1', 'Seafood', 'Train', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1042', '9500', 'Australia', 'Mild', '4.8', '2', 'Vegan', 'Flight', '10');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1043', '8000', 'Germany', 'Moderate', '4.4', '2', 'Non-Vegetarian', 'Flight', '7');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1044', '7500', 'Spain', 'Moderate', '4.3', '1', 'Vegetarian', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1045', '7000', 'France', 'Mild', '4.6', '2', 'Vegan', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1046', '9000', 'Italy', 'Moderate', '4.7', '2', 'Seafood', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1047', '8500', 'United States', 'Mild', '4.5', '1', 'Non-Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1048', '7000', 'Japan', 'Mild', '4.3', '1', 'Vegan', 'Flight', '6');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1049', '9500', 'Brazil', 'Tropical', '4.6', '2', 'Non-Vegetarian', 'Flight', '8');
INSERT INTO User_Preference (User_Id, Budget, Country, Climate, Rating, No_Of_Travellers, FoodPreference, Transport_Preference, No_Of_Days) VALUES ('USR1050', '8000', 'India', 'Tropical', '4.4', '2', 'Vegetarian', 'Train', '7');
dbms_projecttmsbilladmin
```

Database Created:

Output:
https://gist.github.com/Aditya-y9/a73b8c4562dd2c702f7038b17845fbbf#file-database__creation_output-txt

SQL-DML and Complex Queries

SQL-DML for manipulating data:

Data Manipulation Language (DML):

Use **INSERT, UPDATE, and DELETE** statements to manipulate data in the tables.
SELECT statement retrieves data from one or more tables.
Aggregate Functions:

Functions like **AVG, SUM, COUNT, MIN, and MAX** operate on a set of values to return a single value.
They are often used with GROUP BY clause to perform aggregate operations on groups of rows.

Complex Queries:

Combining multiple SELECT statements using UNION, INTERSECT, or EXCEPT.
Using subqueries to nest one query within another, typically within WHERE or FROM clauses.

Join Queries:

Use **JOIN** clause to retrieve data from multiple related tables simultaneously.
Different types of joins include **INNER JOIN, LEFT JOIN, RIGHT JOIN, and FULL JOIN.**
Sorting:

Use **ORDER BY** clause to sort query results based on one or more columns.
Sorting can be in ascending (default) or descending order.

Grouping:
Use **GROUP BY** clause to group rows that have the same values into summary rows.
Aggregate functions are often used in conjunction with GROUP BY to perform calculations on grouped data.

LIMIT: Specifies the maximum number of records to return.

SUM(): An aggregate function that returns the sum of all or distinct values in a set.

IN: Allows you to specify multiple values in a WHERE clause.

INNER JOIN: Returns records that have matching values in both tables.

ON: Used to join tables based on a related column between them.

UPDATE: Used to modify the existing records in a table.

SET: Used with UPDATE to specify the new value of the column.

WHERE: Used to filter records.

DELETE: Used to delete existing records from a table.

INSERT INTO: Used to insert new records into a table.

VALUES: Specifies the values of an INSERT INTO statement.

ALTER TABLE: Used to add, delete/drop or modify columns in an existing table.

ADD COLUMN: Used with ALTER TABLE to add new columns into a table.

CREATE TABLE: Used to create a new table.

DROP TABLE: Used to delete a table.

TRUNCATE TABLE: Used to delete the data inside a table, but not the table itself.

RENAME TABLE: Used to rename a table.

GRANT: Gives users permission to perform certain tasks.

REVOKE: Takes back permissions from users.

COMMIT: Saves all changes made in the current transaction.

ROLLBACK: Rolls back an explicit or implicit transaction to the beginning of the transaction, or to a savepoint inside the transaction

```sql
-- Find the average budget of all itineraries
SELECT AVG(Budget) AS AverageBudget FROM Itinerary;

-- Find the total number of users with the same blood group
SELECT Blood_group, COUNT(*) AS NumberOfUsers FROM User_Profile GROUP BY Blood_group;

-- Find the maximum wallet balance among all user accounts
SELECT MAX(Wallet) AS MaxWalletBalance FROM User_Account;

-- Find the minimum, maximum, and average hotel cost
SELECT MIN(Cost) AS MinCost, MAX(Cost) AS MaxCost, AVG(Cost) AS AverageCost FROM Hotel;

-- Find the top 5 most expensive itineraries
SELECT * FROM Itinerary ORDER BY Budget DESC LIMIT 5;

-- Find the number of itineraries per country
SELECT Country, COUNT(*) AS NumberOfItineraries FROM Itinerary GROUP BY Country;

-- Find the total amount billed per user
SELECT User_Id, SUM(Amount) AS TotalAmount FROM Bill GROUP BY User_Id;

-- Find the number of users per climate preference
SELECT Climate, COUNT(*) AS NumberOfUsers FROM User_Preference GROUP BY Climate;

-- Find the top 3 most preferred transport types by users
SELECT Transport_Preference, COUNT(*) AS NumberOfUsers FROM User_Preference GROUP BY Transport_Preference ORDER BY NumberOfUsers DESC LIMIT
3;

-- Find the average rating of hotels
SELECT AVG(Rating) AS AverageRating FROM Hotel;

-- Find the number of tourist places per city
SELECT City, COUNT(*) AS NumberOfPlaces FROM Tourist_Places GROUP BY City;

-- Find the names of users who have the maximum wallet balance
SELECT Name FROM User WHERE User_Id IN (SELECT User_Id FROM User_Account WHERE Wallet = (SELECT MAX(Wallet) FROM User_Account));

SELECT User.Name FROM User INNER JOIN (SELECT User_Id, MAX(Wallet) AS MaxWallet FROM User_Account GROUP BY User_Id) AS MaxWallets

-- Find the names of users who have travelled to the most popular tourist place
SELECT User.Name FROM User INNER JOIN Itinerary ON User.User_Id = Itinerary.User_Id WHERE Itinerary.City = (SELECT City FROM Tourist_Places
GROUP BY City ORDER BY COUNT(*) DESC LIMIT 1);

-- Find the names of users who have stayed in the highest rated hotel
SELECT User.Name FROM User INNER JOIN Itinerary ON User.User_Id = Itinerary.User_Id WHERE Itinerary.Hotel_id = (SELECT Hotel_id FROM Hotel
ORDER BY Rating DESC LIMIT 1);

-- Find the total amount spent by each user
SELECT User.Name, SUM(Bill.Amount) AS TotalSpent FROM User INNER JOIN Bill ON User.User_Id = Bill.User_Id GROUP BY User.Name;

-- Find the average rating of itineraries for each country
SELECT Country, AVG(Rating) AS AverageRating FROM Itinerary GROUP BY Country;

-- Find the most preferred food preference among users
SELECT FoodPreference, COUNT(*) AS NumberOfUsers FROM User_Preference GROUP BY FoodPreference ORDER BY NumberOfUsers DESC LIMIT 1;

-- Find the total number of users who have a preference for each climate
SELECT Climate, COUNT(*) AS NumberOfUsers FROM User_Preference GROUP BY Climate;

UPDATE User SET Name = 'Aditya Yedurkar' WHERE User_Id = 'U001';

UPDATE User_Account SET Wallet = 50000 WHERE User_Id = 'U001';

UPDATE User_Preference SET Budget = 200000 WHERE User_Id = 'U001';

UPDATE Itinerary SET Budget = 250000 WHERE User_Id = 'U001';
```

```sql
UPDATE Bill SET Amount = 30000 WHERE User_Id = 'U001';

DELETE FROM User WHERE User_Id = 'U002';

INSERT INTO User (User_Id, Name, Email, Phone) VALUES ('U1051','Aditya Yedurkar','aditya.yedurkar@gmail.com','9876543210','Mumbai');

ALTER TABLE User ADD COLUMN Email VARCHAR(255);

CREATE TABLE Address ( Address_Id INT PRIMARY KEY, Street VARCHAR(255), City VARCHAR(255), State VARCHAR(255), Country VARCHAR(255) );

DROP TABLE User_Preference;

TRUNCATE TABLE Itinerary;

RENAME TABLE User TO Users;

GRANT SELECT, INSERT, UPDATE, DELETE ON Users TO 'admin'@'localhost';

REVOKE INSERT, UPDATE ON Users FROM 'root'@'localhost';

COMMIT;

ROLLBACK;
```

Output:
https://gist.github.com/Aditya-y9/a73b8c4562dd2c702f7038b17845fbbf#file-dml-txt

- **Nested Query:**
  - This query retrieves the names of users who have the maximum wallet balance.
  - It uses a subquery to find the maximum wallet balance from the User_Account table, then filters the User table based on the User_Id associated with that maximum balance.
- **Join Query:**
  - This query finds the names of users who have stayed in the highest-rated hotel.
  - It utilizes a join between the User and Itinerary tables on the User_Id column, then filters the Itinerary table based on the hotel with the highest rating.
- **Aggregate Function:**
  - This query calculates the average budget of all itineraries.
  - It employs the AVG aggregate function to compute the average of the Budget column from the Itinerary table.
- **Complex Query:**
  - This query determines the total amount spent by each user.
  - It combines the User and Bill tables using an inner join on the User_Id column and then sums up the Amount column from the Bill table for each user, displaying the total spent.
- **Aggregate Function with Group By:**

- This query counts the number of itineraries per country.
- It utilizes the COUNT aggregate function along with GROUP BY to count the number of rows (itineraries) for each distinct country in the Itinerary table.

Complex Query with Aggregate Function and Group By:

- This query finds the top 3 most preferred transport types by users.
- It groups the data in the User_Preference table by Transport_Preference, counts the occurrences of each transport type using COUNT, then sorts the results in descending order and limits it to the top 3 rows.

```sql
-- Nested Query: Find the names of users who have the maximum wallet balance
SELECT Name FROM User WHERE User_Id IN (SELECT User_Id FROM User_Account WHERE Wallet = (SELECT MAX(Wallet) FROM User_Account));

-- Join Query: Find the names of users who have stayed in the highest rated hotel
SELECT User.Name FROM User INNER JOIN Itinerary ON User.User_Id = Itinerary.User_Id WHERE Itinerary.Hotel_id = (SELECT Hotel_id FROM Hotel
ORDER BY Rating DESC LIMIT 1);

-- Aggregate Function: Find the average budget of all itineraries
SELECT AVG(Budget) AS AverageBudget FROM Itinerary;

-- Complex Query: Find the total amount spent by each user
SELECT User.Name, SUM(Bill.Amount) AS TotalSpent FROM User INNER JOIN Bill ON User.User_Id = Bill.User_Id GROUP BY User.Name;

-- Aggregate Function with Group By: Find the number of itineraries per country
SELECT Country, COUNT(*) AS NumberOfItineraries FROM Itinerary GROUP BY Country;

-- Complex Query with Aggregate Function and Group By: Find the top 3 most preferred transport types by users
SELECT Transport_Preference, COUNT(*) AS NumberOfUsers FROM User_Preference GROUP BY Transport_Preference ORDER BY NumberOfUsers DESC LIMIT
3;
```

Output:
https://gist.github.com/Aditya-y9/a73b8c4562dd2c702f7038b17845fbbf#file-nested-txt

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THANK YOU!