4.RIDE APPLICATION

CREATE DATABASE YOUR_RIDE;

USE YOUR_RIDE;

DRIVERS TABLE

CREATE TABLE DRIVERS (

DRIVER_ID INT PRIMARY KEY,

FIRST_NAME VARCHAR(100),

LAST_NAME VARCHAR(100),

PHONE INT,

CITY VARCHAR(100),

VEHICLE TYPE ENUM ('SEDAN','HATCHBACK','SUV'),

RATING VARCHAR(5));

RIDERS TABLE

CREATE TABLE RIDERS (

RIDER_ID VARCHAR (20) PRIMARY KEY,

FIRST__NAME VARCHAR(100),

LAST_NAME VARCHAR(100),

PHONE INT,

CITY VARCHAR(100),

JOIN_DATE DATE);

RIDES TABLE

```sql
CREATE TABLE RIDES (

RIDE_ID VARCHAR(20) PRIMARY KEY,

RIDER_ID VARCHAR(20),

DRIVER_ID INT,

RIDE_DATE DATE,

PICKUP_LOCATION VARCHAR(100),

DROP_LOCATION VARCHAR(100),

DISTANCE VARCHAR(100),

FARE INT,

RIDE_STATUS ENUM('COMPLETED','CANCELLED','ONGOING'),

FOREIGN KEY (RIDER_ID) REFERENCES RIDERS(RIDER_ID),

FOREIGN KEY (DRIVER_ID) REFERENCES DRIVERS(DRIVER_ID) );
```

PAYMENTS TABLE

```sql
CREATE TABLE PAYMENTS (

PAYMENT_ID VARCHAR(100) PRIMARY KEY,

RIDE_ID VARCHAR(20),

PAYMENT_METHOD ENUM('CARD','CASH','WALLET'),

AMOUNT INT,

PAYMENT_DATE DATE,

FOREIGN KEY (RIDE_ID) REFERENCES RIDES (RIDE_ID) );


INSERT INTO DRIVERS (DRIVER_ID, FIRST_NAME, LAST_NAME, PHONE, CITY, VEHICLE_TYPE, RATING)
VALUES
```

(1, 'Amit', 'Sharma', 9876543210, 'Delhi', 'SEDAN', '4.5'),

(2, 'Priya', 'Verma', 9123456789, 'Mumbai', 'SUV', '4.8'),

(3, 'Ravi', 'Kumar', 9988776655, 'Bangalore', 'HATCHBACK', '4.2'),

(4, 'Sneha', 'Mehta', 9090909090, 'Hyderabad', 'SEDAN', '4.6'),

(5, 'Arjun', 'Patel', 9345678901, 'Ahmedabad', 'SUV', '4.7'),

(6, 'Neha', 'Singh', 9765432189, 'Pune', 'HATCHBACK', '4.1'),

(7, 'Rajesh', 'Reddy', 9456123789, 'Chennai', 'SEDAN', '4.3'),

(8, 'Pooja', 'Nair', 9012345678, 'Kochi', 'SUV', '4.9'),

(9, 'Vikas', 'Gupta', 9876012345, 'Jaipur', 'HATCHBACK', '4.0'),

(10, 'Anjali', 'Mishra', 9345612890, 'Lucknow', 'SEDAN', '4.4'),

(11, 'Sandeep', 'Yadav', 9977886655, 'Bhopal', 'SUV', '4.6'),

(12, 'Divya', 'Rana', 9123465789, 'Chandigarh', 'SEDAN', '4.7'),

(13, 'Karan', 'Gill', 9834567890, 'Ludhiana', 'HATCHBACK', '4.2'),

(14, 'Meera', 'Iyer', 9567890123, 'Coimbatore', 'SUV', '4.8'),

(15, 'Rohan', 'Das', 9898989898, 'Kolkata', 'SEDAN', '4.5'),

(16, 'Swati', 'Joshi', 9786123456, 'Nagpur', 'HATCHBACK', '4.3'),

(17, 'Nikhil', 'Bose', 9234567890, 'Ranchi', 'SUV', '4.1'),

(18, 'Aishwarya', 'Pillai', 9876234567, 'Thiruvananthapuram', 'SEDAN', '4.9'),

(19, 'Manoj', 'Chatterjee', 9456781234, 'Howrah', 'SUV', '4.6'),

(20, 'Lakshmi', 'Menon', 9988123456, 'Visakhapatnam', 'HATCHBACK', '4.2');

INSERT INTO RIDERS (RIDER_ID, FIRST__NAME, LAST_NAME, PHONE, CITY, JOIN_DATE) VALUES

('R001', 'Rahul', 'Kapoor', 9876543210, 'Delhi', '2023-01-15'),

('R002', 'Ananya', 'Singh', 9123456789, 'Mumbai', '2022-12-10'),

('R003', 'Vikram', 'Nair', 9988776655, 'Bangalore', '2023-03-20'),

('R004', 'Sonal', 'Patil', 9090909090, 'Pune', '2022-11-25'),

('R005', 'Harsh', 'Mehra', 9345678901, 'Ahmedabad', '2023-05-02'),

('R006', 'Kavita', 'Mishra', 9765432189, 'Hyderabad', '2023-04-14'),

('R007', 'Deepak', 'Yadav', 9456123789, 'Lucknow', '2022-09-30'),

('R008', 'Ishita', 'Rao', 9012345678, 'Chennai', '2023-06-01'),

('R009', 'Aditya', 'Joshi', 9876012345, 'Nagpur', '2023-02-05'),

('R010', 'Nisha', 'Pillai', 9345612890, 'Kochi', '2022-08-18'),

('R011', 'Rohit', 'Dasgupta', 9977886655, 'Kolkata', '2023-01-22'),

('R012', 'Tanya', 'Choudhary', 9123465789, 'Jaipur', '2022-10-11'),

('R013', 'Siddharth', 'Gill', 9834567890, 'Chandigarh', '2023-05-19'),

('R014', 'Meghna', 'Shah', 9567890123, 'Surat', '2023-03-28'),

('R015', 'Tarun', 'Kumar', 9898989898, 'Ranchi', '2023-06-07'),

('R016', 'Lavanya', 'Iyer', 9786123456, 'Coimbatore', '2023-01-30'),

('R017', 'Yash', 'Bhatia', 9234567890, 'Bhopal', '2023-02-14'),

('R018', 'Pallavi', 'Menon', 9876234567, 'Visakhapatnam', '2022-12-22'),

('R019', 'Arvind', 'Verma', 9456781234, 'Howrah', '2023-04-10'),

('R020', 'Shruti', 'Reddy', 9988123456, 'Thiruvananthapuram', '2022-11-03');

INSERT INTO RIDES (RIDE_ID, RIDER_ID, DRIVER_ID, RIDE_DATE, PICKUP_LOCATION, DROP_LOCATION, DISTANCE, FARE, RIDE_STATUS) VALUES

('RID001', 'R001', 1, '2024-05-01', 'Connaught Place', 'Saket', '12 km', 180, 'COMPLETED'),

('RID002', 'R002', 3, '2024-05-03', 'Andheri East', 'Bandra', '9 km', 150, 'COMPLETED'),

('RID003', 'R003', 5, '2024-05-04', 'Koramangala', 'MG Road', '7 km', 120, 'COMPLETED'),

('RID004', 'R004', 7, '2024-05-06', 'Kothrud', 'Shivajinagar', '6 km', 110, 'CANCELLED'),

('RID005', 'R005', 9, '2024-05-07', 'Maninagar', 'Navrangpura', '10 km', 160, 'COMPLETED'),

('RID006', 'R006', 2, '2024-05-08', 'Banjara Hills', 'Madhapur', '11 km', 170, 'ONGOING'),

('RID007', 'R007', 4, '2024-05-09', 'Alambagh', 'Gomti Nagar', '8 km', 140, 'COMPLETED'),

('RID008', 'R008', 6, '2024-05-10', 'T. Nagar', 'Velachery', '13 km', 200, 'COMPLETED'),

('RID009', 'R009', 8, '2024-05-11', 'Dharampeth', 'Sadar', '6 km', 100, 'CANCELLED'),

('RID010', 'R010', 10, '2024-05-12', 'Marine Drive', 'Fort Kochi', '9 km', 150, 'COMPLETED'),

('RID011', 'R011', 12, '2024-05-12', 'Salt Lake', 'Park Street', '10 km', 160, 'COMPLETED'),

('RID012', 'R012', 14, '2024-05-13', 'Vaishali Nagar', 'MI Road', '8 km', 140, 'COMPLETED'),

('RID013', 'R013', 16, '2024-05-14', 'Sector 17', 'ISBT', '6 km', 100, 'CANCELLED'),

('RID014', 'R014', 18, '2024-05-14', 'Adajan', 'Athwa', '7 km', 110, 'COMPLETED'),

('RID015', 'R015', 20, '2024-05-15', 'Lalpur', 'Kutchery Road', '5 km', 90, 'COMPLETED'),

('RID016', 'R016', 11, '2024-05-15', 'RS Puram', 'Town Hall', '6 km', 100, 'COMPLETED'),

('RID017', 'R017', 13, '2024-05-16', 'MP Nagar', 'Habibganj', '7 km', 120, 'COMPLETED'),

('RID018', 'R018', 15, '2024-05-17', 'Gajuwaka', 'Dwaraka Nagar', '10 km', 160, 'ONGOING'),

('RID019', 'R019', 17, '2024-05-17', 'Shibpur', 'Esplanade', '11 km', 170, 'COMPLETED'),

('RID020', 'R020', 19, '2024-05-18', 'Pettah', 'Kowdiar', '9 km', 140, 'COMPLETED');

INSERT INTO PAYMENTS (PAYMENT_ID, RIDE_ID, PAYMENT_METHOD, AMOUNT, PAYMENT_DATE) VALUES

('PAY001', 'RID001', 'CARD', 180, '2024-05-01'),

('PAY002', 'RID002', 'CASH', 150, '2024-05-03'),

('PAY003', 'RID003', 'WALLET', 120, '2024-05-04'),

('PAY004', 'RID004', 'CASH', 0, '2024-05-06'),

('PAY005', 'RID005', 'CARD', 160, '2024-05-07'),

('PAY006', 'RID006', 'WALLET', 0, '2024-05-08'),

('PAY007', 'RID007', 'CASH', 140, '2024-05-09'),

('PAY008', 'RID008', 'CARD', 200, '2024-05-10'),

('PAY009', 'RID009', 'CASH', 0, '2024-05-11'),

('PAY010', 'RID010', 'WALLET', 150, '2024-05-12'),

('PAY011', 'RID011', 'CARD', 160, '2024-05-12'),

('PAY012', 'RID012', 'CASH', 140, '2024-05-13'),

('PAY013', 'RID013', 'WALLET', 0, '2024-05-14'),

('PAY014', 'RID014', 'CARD', 110, '2024-05-14'),

('PAY015', 'RID015', 'CASH', 90, '2024-05-15'),

('PAY016', 'RID016', 'WALLET', 100, '2024-05-15'),

('PAY017', 'RID017', 'CARD', 120, '2024-05-16'),

('PAY018', 'RID018', 'CASH', 0, '2024-05-17'),

('PAY019', 'RID019', 'WALLET', 170, '2024-05-17'),

('PAY020', 'RID020', 'CARD', 140, '2024-05-18');

Assignment Querie

1. SELECT FIRST_NAME, LAST_NAME, PHONE, CITY, RATING

FROM DRIVERS

WHERE CAST(RATING AS DECIMAL(2,1)) >= 4.5;

2.

SELECT DRIVER_ID, COUNT(*) AS COMPLETED_RIDES

FROM RIDES

WHERE RIDE_STATUS = 'COMPLETED'

GROUP BY DRIVER_ID;

3.

SELECT RIDER_ID, FIRST__NAME, LAST_NAME, PHONE, CITY

FROM RIDERS

WHERE RIDER_ID NOT IN (SELECT DISTINCT RIDER_ID FROM RIDES);

4.

SELECT D.DRIVER_ID, D.FIRST_NAME, D.LAST_NAME, SUM(P.AMOUNT) AS TOTAL_EARNINGS

FROM DRIVERS D

JOIN RIDES R ON D.DRIVER_ID = R.DRIVER_ID

JOIN PAYMENTS P ON R.RIDE_ID = P.RIDE_ID

WHERE R.RIDE_STATUS = 'COMPLETED'

GROUP BY D.DRIVER_ID, D.FIRST_NAME, D.LAST_NAME;

5.

SELECT R1.*

FROM RIDES R1

INNER JOIN (

   SELECT RIDER_ID, MAX(RIDE_DATE) AS LATEST_RIDE

   FROM RIDES

   GROUP BY RIDER_ID

) R2 ON R1.RIDER_ID = R2.RIDER_ID AND R1.RIDE_DATE = R2.LATEST_RIDE;

6.RI.CITY, COUNT(R.RIDE_ID) AS RIDE_COUNT

FROM RIDERS RI

JOIN RIDES R ON RI.RIDER_ID = R.RIDER_ID

GROUP BY RI.CITY;

7.

SELECT *

FROM RIDES

WHERE CAST(SUBSTRING_INDEX(DISTANCE, ' ', 1) AS UNSIGNED) > 20;

8.

SELECT PAYMENT_METHOD, COUNT(*) AS USAGE_COUNT

FROM PAYMENTS

GROUP BY PAYMENT_METHOD

ORDER BY USAGE_COUNT DESC

LIMIT 1;

9.

SELECT D.DRIVER_ID, D.FIRST_NAME, D.LAST_NAME, SUM(P.AMOUNT) AS TOTAL_EARNINGS

FROM DRIVERS D

JOIN RIDES R ON D.DRIVER_ID = R.DRIVER_ID

JOIN PAYMENTS P ON R.RIDE_ID = P.RIDE_ID

WHERE R.RIDE_STATUS = 'COMPLETED'

GROUP BY D.DRIVER_ID, D.FIRST_NAME, D.LAST_NAME

ORDER BY TOTAL_EARNINGS DESC

LIMIT 3;

10.

```sql
SELECT R.RIDE_ID, R.RIDE_DATE, R.PICKUP_LOCATION, R.DROP_LOCATION,
    RD.FIRST_NAME AS RIDER_FIRST_NAME, RD.LAST_NAME AS RIDER_LAST_NAME,
    D.FIRST_NAME AS DRIVER_FIRST_NAME, D.LAST_NAME AS DRIVER_LAST_NAME
FROM RIDES R
JOIN RIDERS RD ON R.RIDER_ID = RD.RIDER_ID
JOIN DRIVERS D ON R.DRIVER_ID = D.DRIVER_ID
WHERE R.RIDE_STATUS = 'CANCELLED';
```