POSTGRE SQL QUERIES

**Q1. Retrieve all successful bookings:**

SELECT \* FROM bookings

WHERE Booking\_Status = 'Success';

**Q2. Find the average ride distance for each vehicle type:**

SELECT Vehicle\_Type, AVG(Ride\_Distance)

as avg\_distance FROM bookings

GROUP BY Vehicle\_Type;

**Q3. Get the total number of cancelled rides by customers:**

SELECT COUNT(\*) FROM bookings

WHERE Booking\_Status = 'cancelled by Customer';

**Q4. List the top 5 customers who booked the highest number of rides:**

SELECT Customer\_ID, COUNT(Booking\_ID) as total\_rides

FROM bookings

GROUP BY Customer\_ID

ORDER BY total\_rides DESC LIMIT 5;

**Q5. Get the number of rides cancelled by drivers due to personal and car-related issues:**

SELECT COUNT(\*) FROM bookings

WHERE cancelled\_Rides\_by\_Driver = 'Personal & Car related issue';

**Q6. Find the maximum and minimum driver ratings for Prime Sedan bookings:**

SELECT MAX(Driver\_Ratings) as max\_rating,

MIN(Driver\_Ratings) as min\_rating

FROM bookings

WHERE Vehicle\_Type = 'Prime Sedan';

**Q7. Retrieve all rides where payment was made using UPI:**

SELECT \* FROM bookings

WHERE Payment\_Method = 'UPI';

**Q8. Find the average customer rating per vehicle type:**

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_rating

FROM bookings

GROUP BY Vehicle\_Type;

**Q9. Calculate the total booking value of rides completed successfully:**

SELECT SUM(Booking\_Value) as total\_successful\_ride\_value

FROM bookings

WHERE Booking\_Status = 'Success';

**Q10. List all incomplete rides along with the reason:**

SELECT Booking\_ID, Incomplete\_Rides\_Reason

FROM bookings

WHERE Incomplete\_Rides = 'Yes';

**Q11. Total Number of Bookings:**

SELECT SUM(total\_bookings) AS total\_bookings

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31';

**Q12. Booking Success Rate:**

SELECT

(SUM(CASE WHEN booking\_status = 'Success' THEN 1 ELSE 0 END) / COUNT(\*)) \* 100 AS success\_rate

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31';

**Q13. Total Revenue for July 2024:**

SELECT SUM(revenue) AS total\_revenue

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31';

**Q14. Revenue Breakdown by Vehicle Type:**

SELECT vehicle\_type, SUM(revenue) AS total\_revenue

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY vehicle\_type;

**Q15. Average Distance Travelled by Each Vehicle Type:**

SELECT vehicle\_type, AVG(distance\_travelled) AS avg\_distance

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY vehicle\_type;

**Q16. Cancelled Bookings by Driver:**

SELECT driver\_id, COUNT(\*) AS cancelled\_by\_driver

FROM bookings

WHERE booking\_status = 'Cancelled by Driver'

AND booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY driver\_id;

**Q17. Cancelled Bookings by Customer**:

SELECT customer\_id, COUNT(\*) AS cancelled\_by\_customer

FROM bookings

WHERE booking\_status = 'Cancelled by Customer'

AND booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY customer\_id;

**Q18. Percentage of Bookings Cancelled by Customer:**

SELECT

(SUM(CASE WHEN booking\_status = 'Cancelled by Customer' THEN 1 ELSE 0 END) / COUNT(\*)) \* 100 AS cancelled\_by\_customer\_percentage

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31';

**Q19. Booking Count by Day:**

SELECT DATE(booking\_date) AS booking\_day, COUNT(\*) AS booking\_count

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY DATE(booking\_date)

ORDER BY booking\_day;

**Q20. Top 5 Customers Based on Booking Value:**

SELECT customer\_id, SUM(revenue) AS total\_spent

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY customer\_id

ORDER BY total\_spent DESC

LIMIT 5;

**Q21. Driver Ratings Breakdown:**

SELECT vehicle\_type, AVG(driver\_rating) AS avg\_driver\_rating

FROM ratings

WHERE rating\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY vehicle\_type;

**Q22. Customer Ratings Breakdown:**

SELECT vehicle\_type, AVG(customer\_rating) AS avg\_customer\_rating

FROM ratings

WHERE rating\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY vehicle\_type;

**Q23. Booking Volume and Revenue by Vehicle Type:**

SELECT vehicle\_type, COUNT(\*) AS total\_bookings, SUM(revenue) AS total\_revenue

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY vehicle\_type;

**Q24. Bookings with Highest and Lowest Revenue:( -- Highest Revenue Booking)**

SELECT booking\_id, revenue

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

ORDER BY revenue DESC

LIMIT 1;

(-- Lowest Revenue Booking)

SELECT booking\_id, revenue

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

ORDER BY revenue ASC

LIMIT 1;

**Q25. Daily Cancellation Rate:**

SELECT DATE(booking\_date) AS booking\_day,

(SUM(CASE WHEN booking\_status = 'Cancelled' THEN 1 ELSE 0 END) / COUNT(\*)) \* 100 AS cancellation\_rate

FROM bookings

WHERE booking\_date BETWEEN '2024-07-01' AND '2024-07-31'

GROUP BY DATE(booking\_date)

ORDER BY booking\_day;