**[SQL-Indore-Ola-Ride-Analysis](https://github.com/Vinaypanika/SQL-Indore-Ola-Ride-Analysis)**

**Basic Level:**

1. Retrieve all records from the booking table.
2. Find the total number of bookings in the booking table.
3. Retrieve all bookings where Booking\_Status is "Completed".
4. Retrieve the first 10 records from the booking table.
5. Find the customers (Customer\_ID) who have booked more than 3 rides.
6. Get the total number of cancelled rides by customers.
7. Retrieve the total booking amount for rides that were successfully completed.
8. Retrieve the number of Booking where driver rating is above 4.5.
9. Find the average ride distance for each vehicle type.
10. Get the number of rides cancelled by drivers due to personal and car-related issues.

**Intermediate Level:**

1. Find the number of rides per vehicle type.
2. Calculate the average ride fare for all successful rides.
3. Get the highest ride distance for each vehicle type.
4. List the top 5 customers who have spent the most on bookings.
5. Find all customers who have made bookings in multiple locations.
6. Find the most popular vehicle type based on the number of bookings.

**Advanced Level:**

1. Find the total ride distance for each vehicle type and display it in descending order.
2. Calculate the percentage of rides that were canceled by drivers.
3. Retrieve the most frequent cancellation reasons provided by customers.

Solutions

**BASIC LEVEL QUESTIONS**

--1. Retrieve all records from the booking table.

SELECT \* FROM booking;

--2. Find the total number of bookings in the booking table.

select count(\*) as Total\_Booking from booking;

--3. Retrieve all bookings where Booking\_Status is "Completed".

select \* from booking

where booking\_status = 'success';

--4. Retrieve the first 10 records from the booking table.

select top 10 \* from booking;

--5. Find the customers (Customer\_ID) who have booked more than 3 rides.

select customer\_id,count(\*) as Number\_of\_booking from booking

group by customer\_id

having count(\*) >3;

--6.Get the total number of cancelled rides by customers

select count(\*) as number\_of\_cancel\_rides from booking

where Canceled\_Rides\_by\_Customer = 1;

--7. Retrieve the total booking amount for rides that were successfully completed.

select sum(booking\_value) as Total\_booking\_amount

from booking

where booking\_status = 'success';

--8. Retrieve the number of Booking where driver rating above 4.5

select count(\*) as Number\_of\_booking from booking

where driver\_ratings > 4.5;

--9. Find the average ride distance for each vehicle type

select vehicle\_type, avg(ride\_distance) as avg\_distance from booking

group by vehicle\_type

order by avg(ride\_distance) desc;

--10. Get the number of rides cancelled by drivers due to personal and car-related issues

select count(\*) as Cancelled\_rides from booking

where Reason\_for\_canceling\_by\_Driver = 'Personal & Car related issue';

**Intermediate Level**

-- 11. Find the number of rides per vehicle type.

SELECT vehicle\_type,count(\*) as Number\_of\_rides

from booking

group by vehicle\_type

order by count(\*) desc;

--12. Calculate the average ride fare for all successful rides.

select avg(booking\_value) as average\_fare from booking

where booking\_status = 'success';

--13. Get the highest ride distance for each vehicle type.

select vehicle\_type, max(ride\_distance) AS max\_distance

from booking

group by vehicle\_type;

-- 14. List the top 5 customers who have spent the most on bookings.

select top 5 customer\_id,sum(booking\_value) as Total\_spending

from booking

group by customer\_id

order by sum(booking\_value);

--15. Find all customers who have made bookings in multiple locations.

select customer\_id from booking

group by customer\_id

having count(distinct drop\_location) > 1;

--16. Find the most popular vehicle type based on the number of bookings.

select top 1 vehicle\_type,count(\*) as Number\_of\_booking from booking

group by vehicle\_type

order by count(\*) desc;

**Advanced Level**

--17. Find the total ride distance for each vehicle type and display it in descending order.

select vehicle\_type,round(sum(ride\_distance),2) as total\_ride\_distance from booking

group by vehicle\_type

order by sum(ride\_distance);

--18. Calculate the percentage of rides that were canceled by drivers.

select (count(case when canceled\_rides\_by\_driver = 1 then 1 end) \* 100.0 / count(\*)) as driver\_cancellation\_percentage

from booking

where booking\_status != 'success';

--19. Retrieve the most frequent cancellation reasons provided by customers.

select reason\_for\_canceling\_by\_customer,count(\*) as frequency

from booking

group by reason\_for\_canceling\_by\_customer

order by count(\*) desc;

**prompt use to create dataset using chatgpt**

Please create a spreadsheet with 1 lac rows, for indore city, give the following columns.  
The data will be for 1 month. use following column -  
Date  
Time  
Booking ID  
Booking Status  
Customer ID  
Vehicle Type

* Auto
* Prime Plus
* Prime Sedan
* Mini
* Bike
* eBike
* Prime SUV  
  Pickup Location (Create dummy location points Take any 50 areas  
  from indore)  
  Drop Location (Take from dummy pickup locations)  
  Avg VTAT (Time taken to arrive the vehicle)  
  Avg CTAT (Time taken to arrive the Customer)  
  Canceled Rides by Customer  
  Reason for canceling by Customer  
  Driver is not moving towards pickup location  
  driver asked to cancel  
  Ac is not working (only for 4 wheelers)  
  Change of plans  
  Wrong Address  
  Canceled Rides by Driver  
  Personal & Car related issue  
  Customer related issue  
  Customer was coughing/sick More than permitted people in there  
  Incomplete Rides  
  Incomplete Rides Reason  
  Customer Demand  
  Vehicle Breakdown  
  Other Issue  
  Booking Value  
  Ride Distance  
  Driver Ratings  
  Customer Rating  
  Keep overall booking status success for this data 62%. If booking status is success then only fare charges ratings, Avg VTAT, Avg CTAT and other will be there.  
  Make sure order canceled by customers should not be more than 7%  
  Make sure order canceled byDrivers should not be more than 18%  
  Also, make sure to increase the number of orders on weekends and match days. keep match day by using the following dates.  
  keep incomplete rides less than 6%  
  Keep order value high on weekends  
  in Food Category keep around 67 Indian  
  keep order id with 10 digit start with CNR and then digits  
  keep orders under 500 value 70% keep orders above 500 value 28% keep remaining orders above 1000