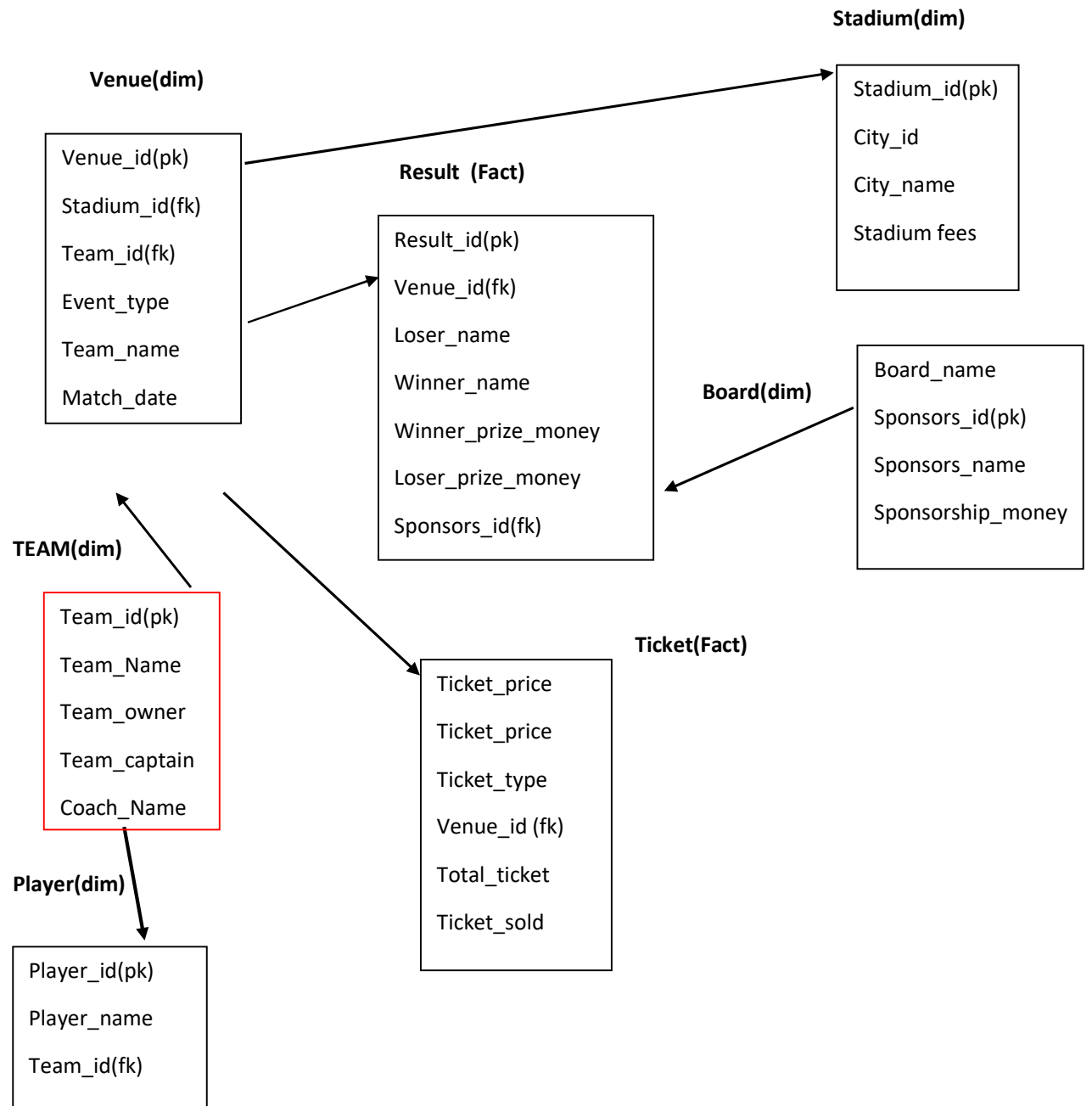


1. Design a Data Warehouse for IPL Cricket Tournament (Asked in Flipkart Interview for Senior Data Engineer role)



Snowflake Schema Design

- 1) Select winner team name of ipl final

Ans) select winner name from venue,result where event_type='Final'

2) Select winner team prize money in ipl final.

ANS) select Winner_prize_money from venue left join result venue.venue_id = result.venue_id where Winner_name= (select winner_name from venue where event_type='Final')

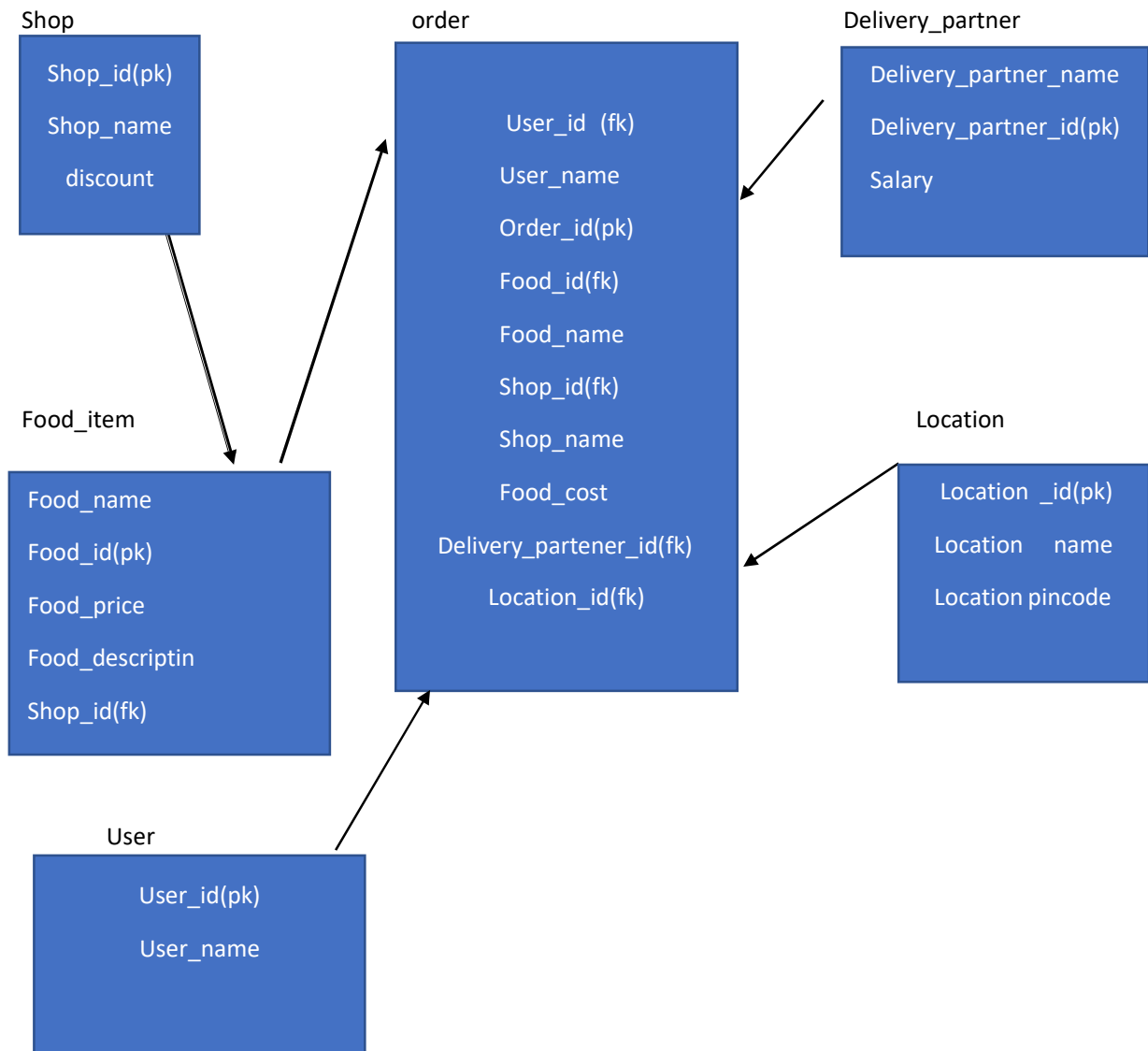
3)select avg ticket price of ipl

Ans) select avg(Ticket_price) from Ticket

4)Count number sponsorship in ipl

Ans) select count(Sponsors_id) from Board

2. Design a Data Warehouse for Food delivery app like Swiggy, Zomato (Asked in Grab for Data Engineer role)



snowflake architecture

1)average salary of food delivery boy

Ans) select avg(salary) from Delivery

2)Number of orders in a date

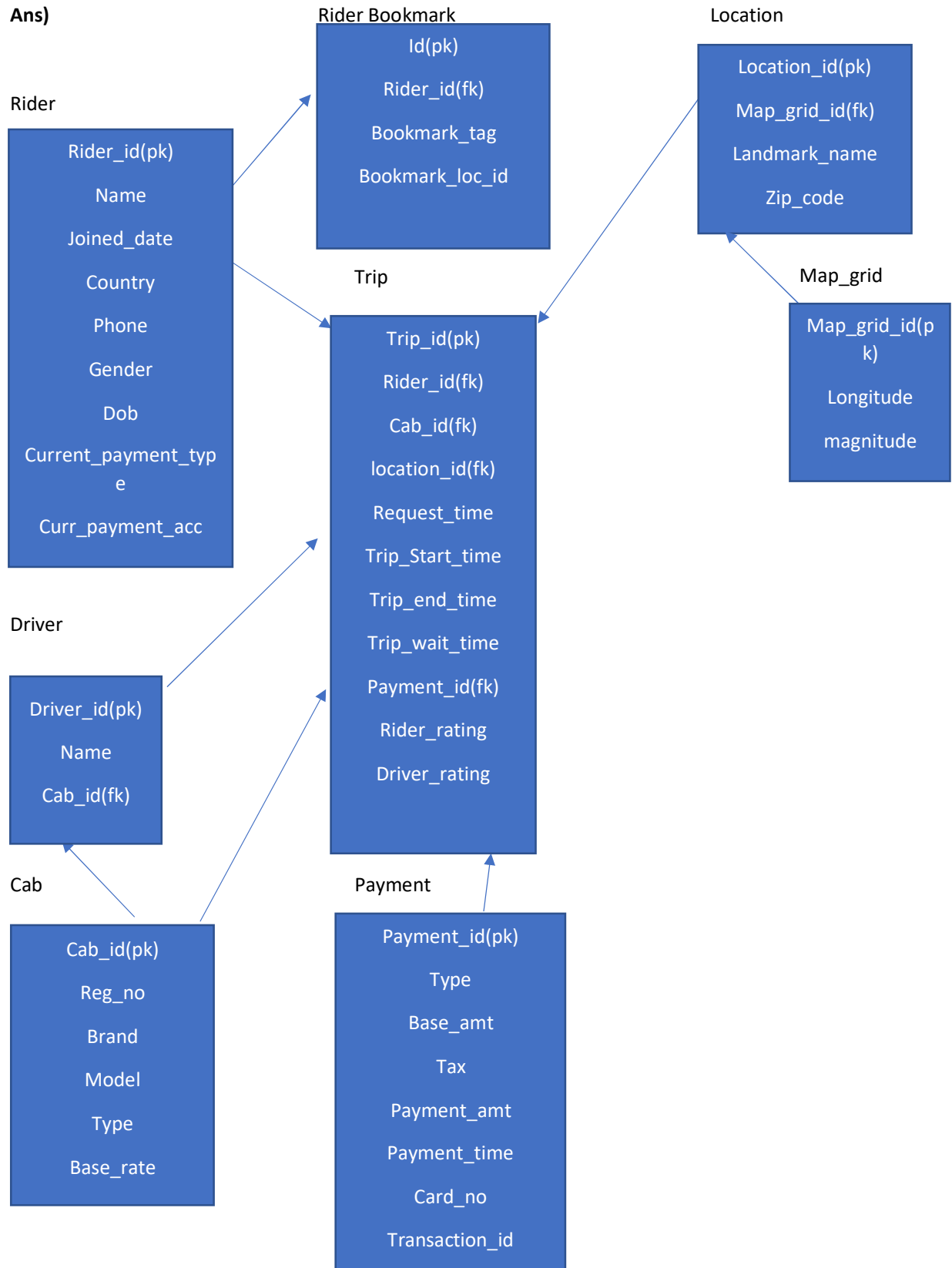
Ans)select count(order_id) over(partition by date) as cnt from order

3)total cost of order

Ans) select sum(Food_cost) as total from order

3. Design a Data Warehouse for cab ride service like Uber, Lyft (Asked in Google for Data Engineer role)

Ans)



Snowflake_architecture

1) What is average rating of rider in uber

Ans) select avg(rider_rating) from Trip

2) what is average ride time in uber

Ans) select avg(start_time - end_time) from Trip

3) which is maximum type of transaction in uber

Ans) with cte as(

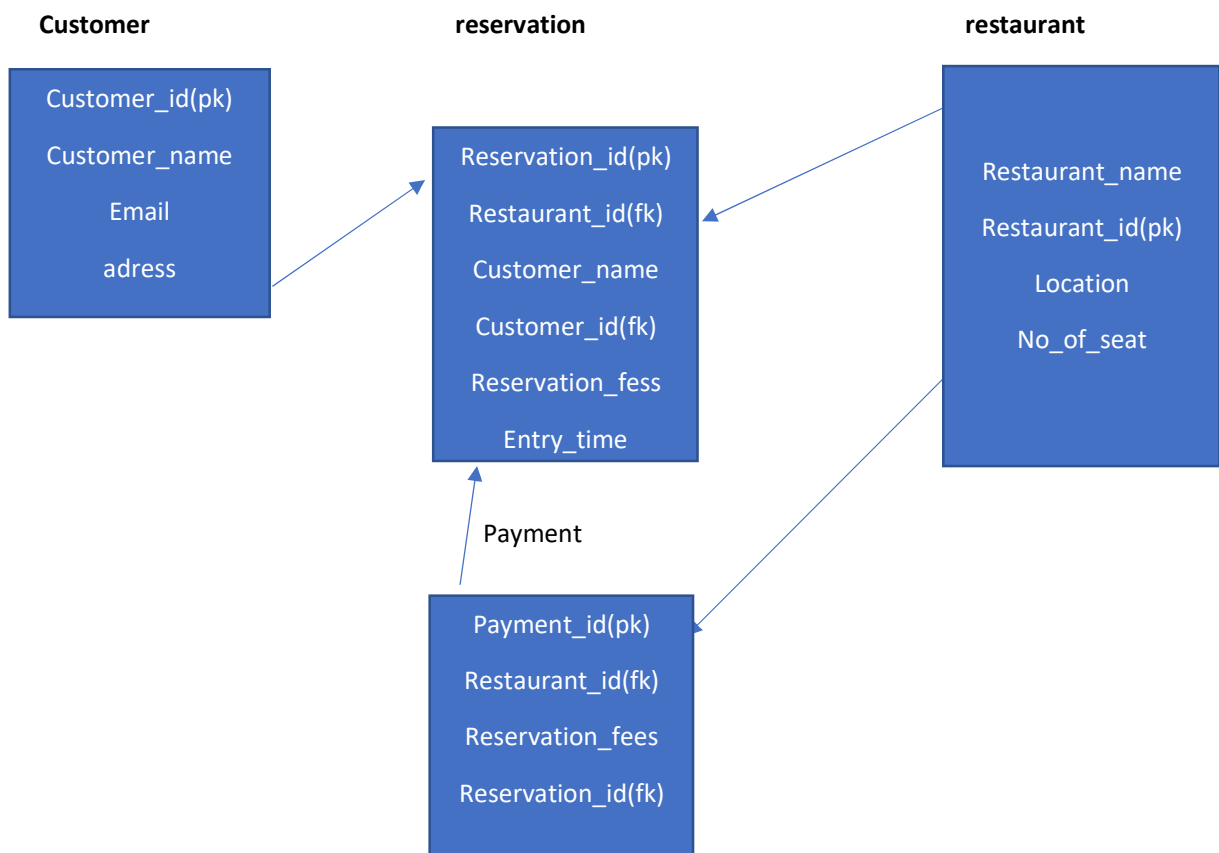
 Select sum(case when type="online" then 1 else 0 end) as online,

 sum(case when type="cash" then 1 else 0 end) as cash

 from Payment)

select if online > cash then "online" else cash from cte

4. Design a Data Warehouse for Restaurant table booking app like Dineout (Asked in McKinsey for Consultant Data Engineer role)



Snowflake architecture

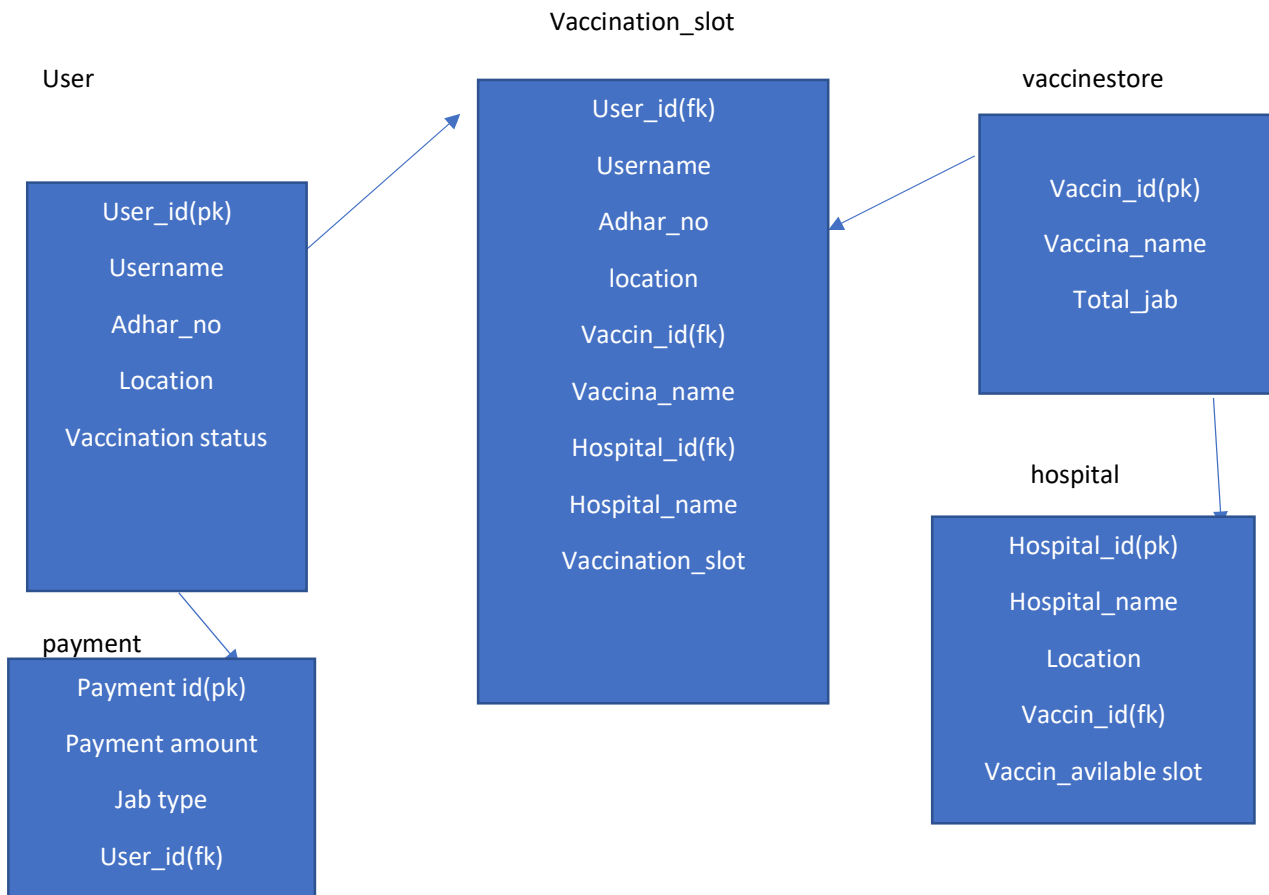
1) total reservation fess collect by a particular restaurant in 2022

Ans) select sum(Reservation_fess) from reservation join restaurant on reservation. Restaurant_id = restaurant. Restaurant_id where year(entry_time)=2022 group by Restaurant_id

2) count total user in dineout app

Ans) select count(customer_id) from customer

5 . Design a Data Warehouse for Covid Vaccination Application (Asked in Livspace for DataEngineer role)



Snowflake architecture

i) Count total number of vaccination?

Ans)select count(Vaccin_id) from Vaccination_slot

ii)which hospital provides most vaccin jab?

Ans) select hospital_name,hospital_id,max(Vaccin_id) as cnt from hospital group by
hospital_name,hospital_id order by cnt asc limit 1