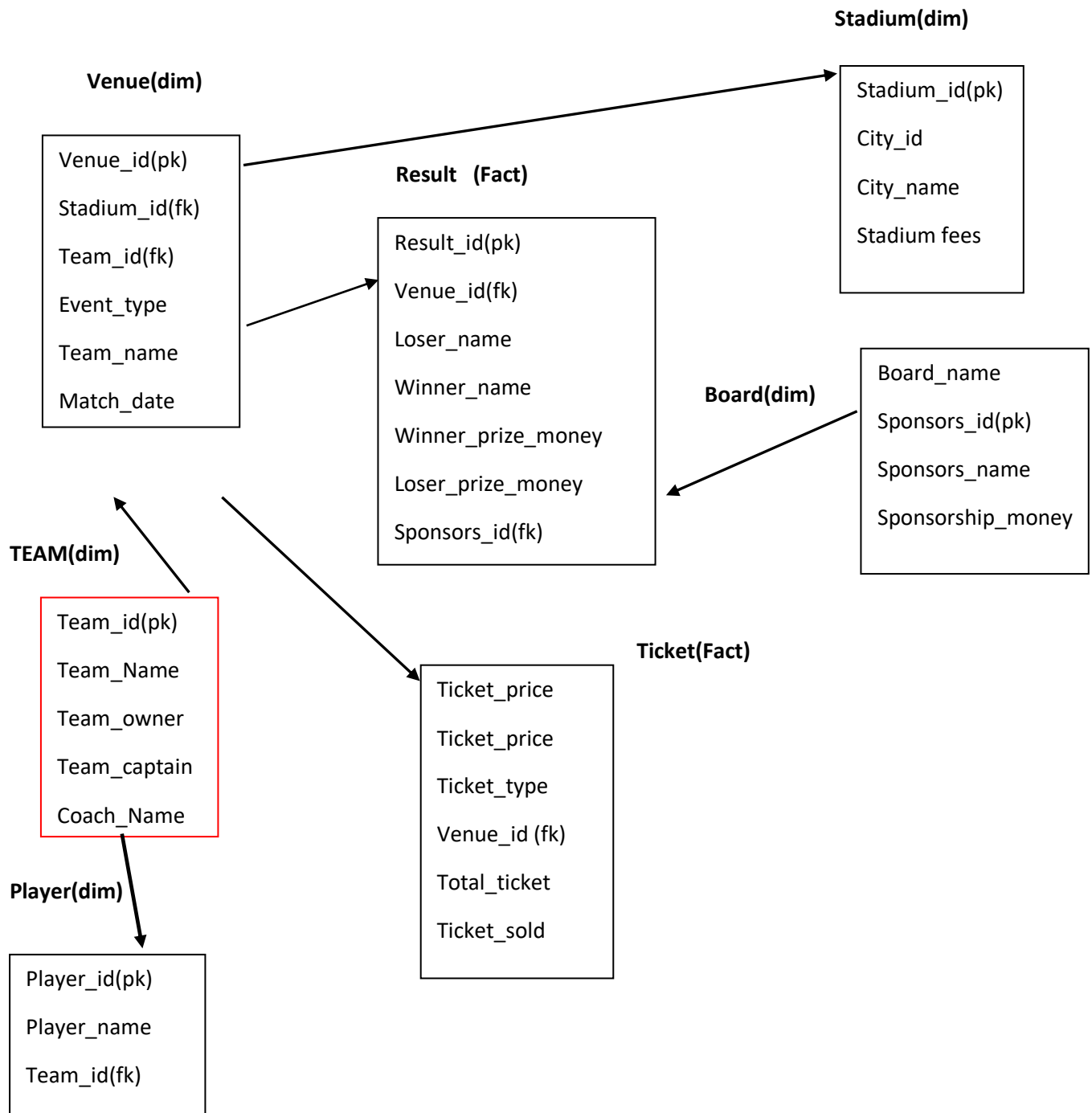


# 1. Design a Data Warehouse for IPL Cricket Tournament (Asked in Flipkart Interview for Senior Data Engineer role)



**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 on venue.venue_id = result.venue_id where Winner_name= (select winner_name from venue where event_type='Final')`

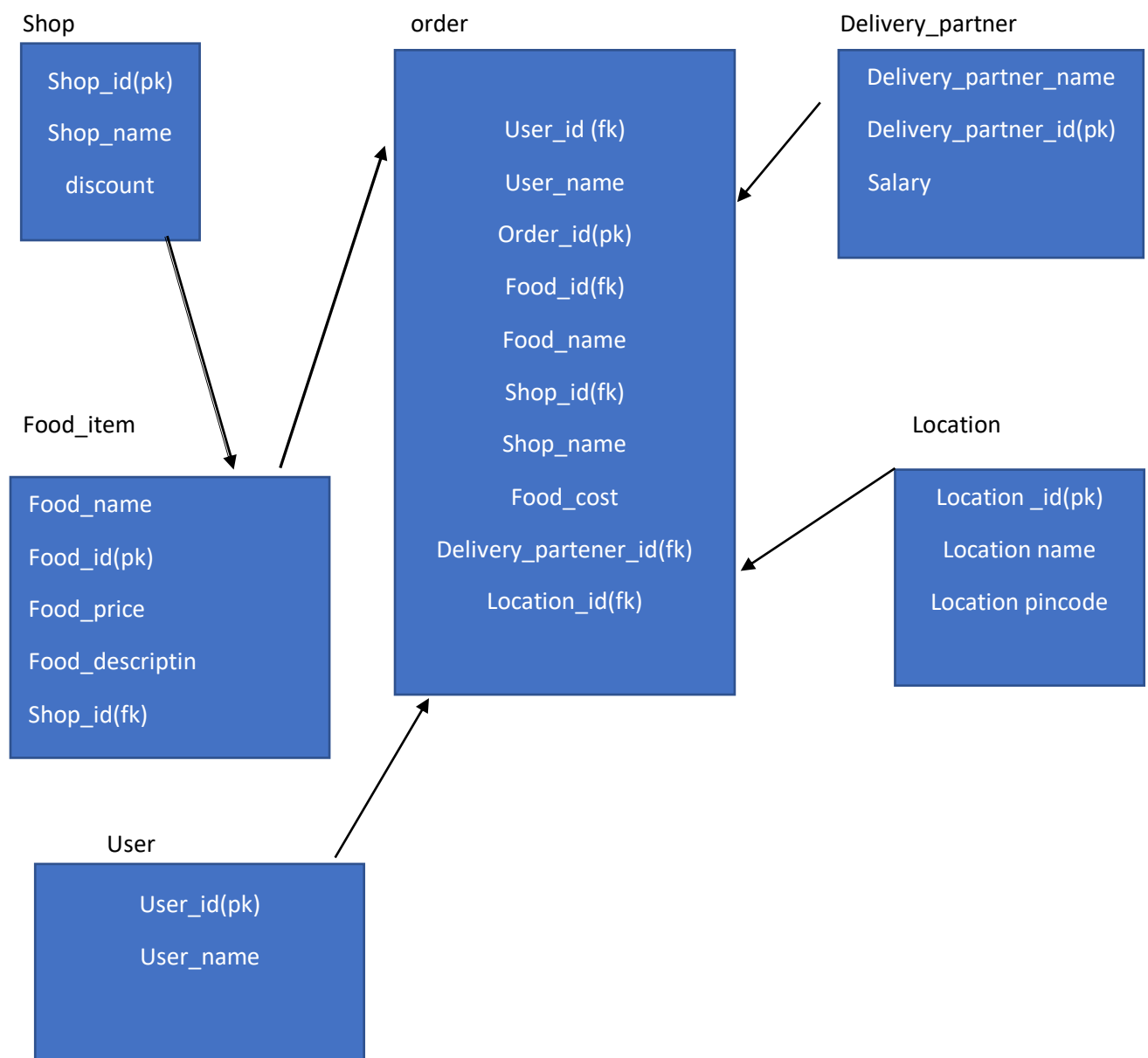
3)select avg ticket price of ipl

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**

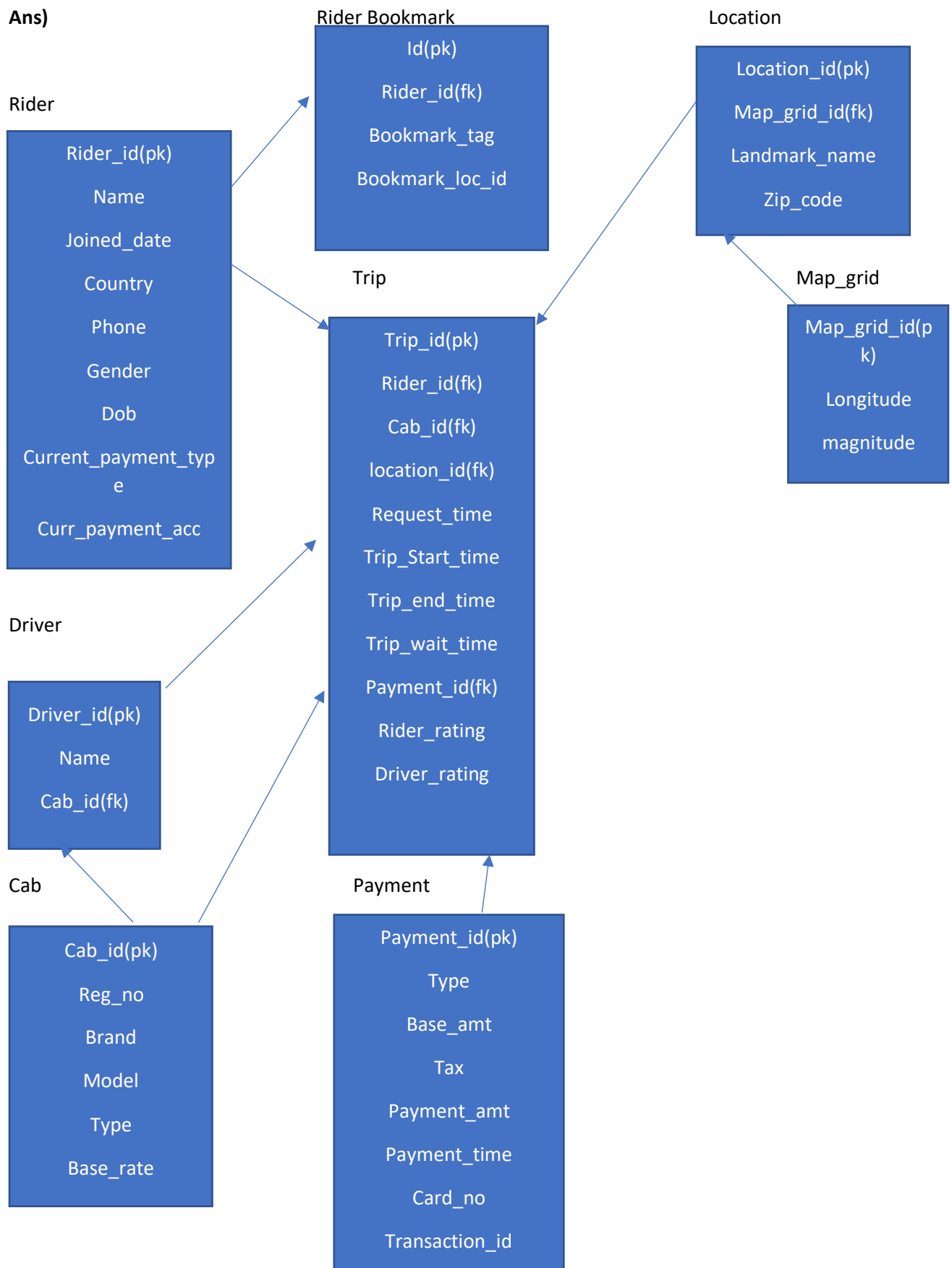
Ans)select count(order\_id) over(partition by date ) as cnt from order

**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**

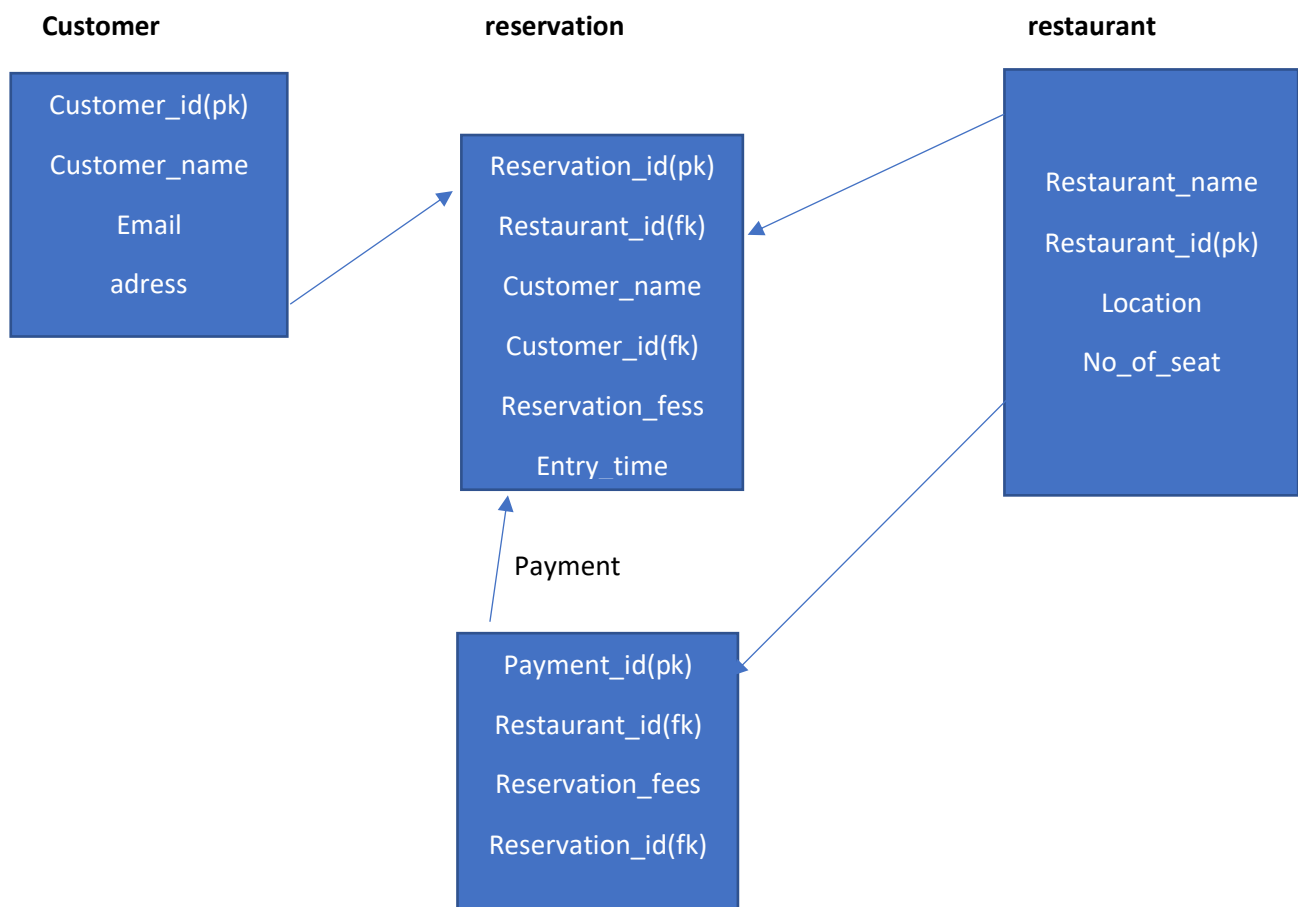
Ans) with cte as(

`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

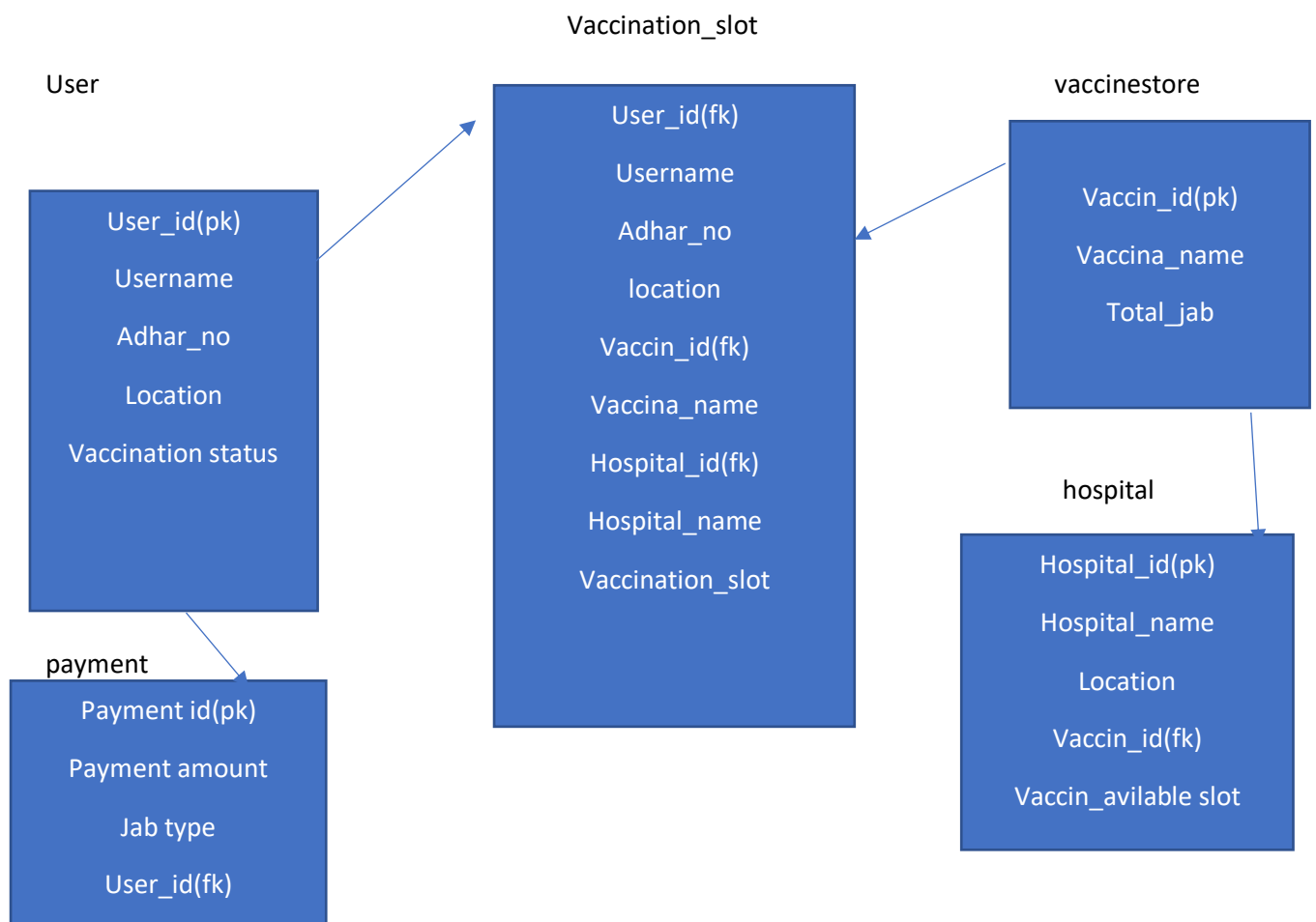
**1)total reservation fess collect by a particular restaurant in 2022**

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 Data Engineer 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