Design a Data Warehouse for IPL Cricket Tournament.

Business process:

* To identify the performance of players.
* To identify the scores of each team.
* How many tickets are getting booked per each match?
* How many tickets are sold for each team?

Grain:

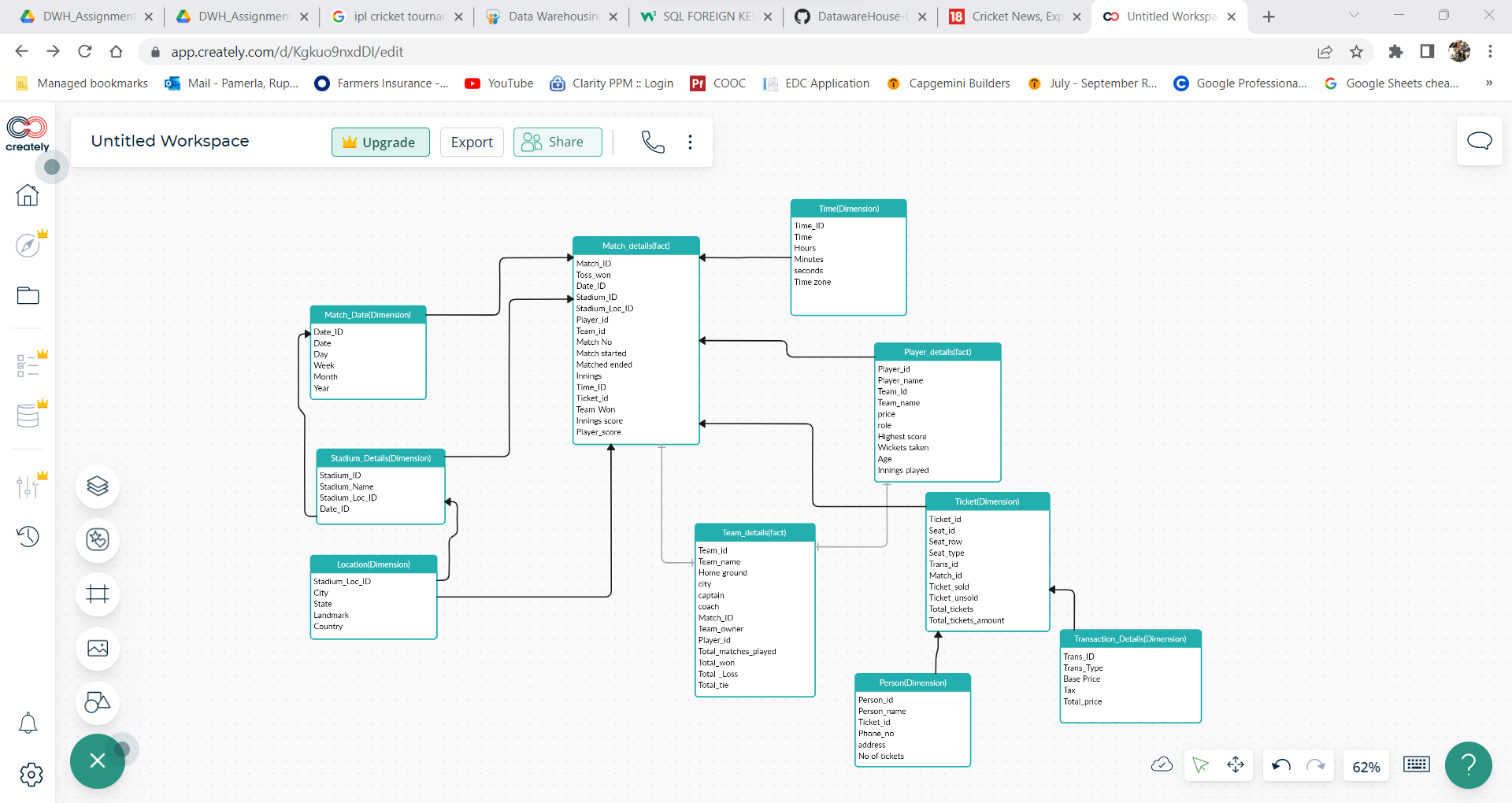
* To maintain the match details and player individual performance as well as booking\_count per each team.

Dimension:

* Match\_Date, Stadium\_Details, Location, Time, Ticket, Person, Transaction\_Details.

Fact:

* Match\_details, Team\_details, Player\_details



To get the count seats where seat\_row =50

Select count(\*) from ticket where seat\_row=50

Design a Data Warehouse for Food delivery app like Swiggy, Zomato.y

Business process:

* To identity the sales based on location.
* To identity most loving items.
* How many orders are getting booked per each day?
* How many orders are cancelled per each day?
* Sales during peak hours per day

Grain:

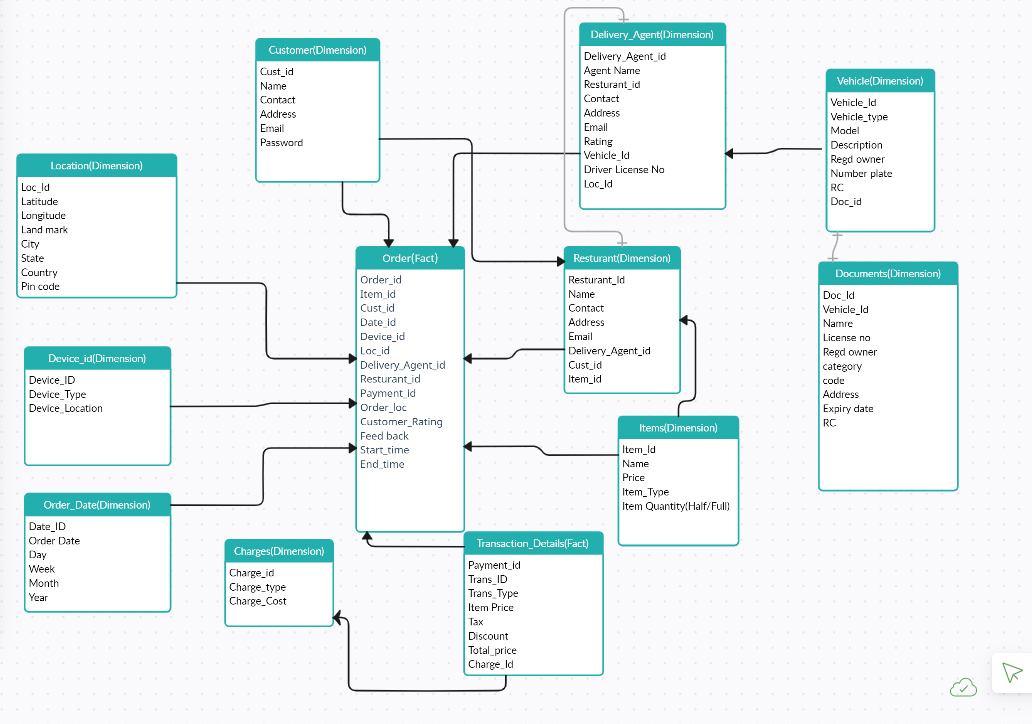
* Individual order are getting placed on each day for delivery

Dimension:

* Customer,Delivery\_agent,Order\_date,location,device,charges,item,restaurant,vehicle,Documents

Fact:

* Order, Transaction\_details



1)Top 5 agents who has rating more than or equal to 4.5

Select Agent\_id, Agent\_Name, rating from Delivery\_agent where rating >=4.5;

2)Get the total price of the order

Select o.order\_id, t.total price from order o inner join transaction\_details t on o.payment\_id= t.payment\_id;

3)Get the top restaurant name which has more orders.

Select count(o.order\_id),r.name from orders o inner join resturant r on o.resturant\_id = r.resturant\_id group by r.name desc limit 1;

4)To calculate the sum of payments based on trans\_type.

Select payment\_id, sum(case when trans\_type =cash then total\_price else o) as cash\_payment,

Sum(case when trans\_type=online then total\_price else 0) as Online\_payment

End

From Transaction\_details group by payment\_id;

5) Get the license expiry date for delivery\_agent

Select da.agent\_name,da.driver\_license\_no,d,expiry date from Delivery\_agent da inner join vehicle v on da.vehicle\_id=v.vehicle\_id join documents d on v.doc\_id=d.doc\_id;

Design a Data Warehouse for cab ride service like Uber, Lyft (Asked in Google for Data

Engineer role)

Business process:

* Tracks rides done by driver and their performance.
* To identity most rides are happening to which place.
* How many trips are getting booked per each day?
* How many trips are cancelled per each day?
* Avg price during peak hours per day

Grain:

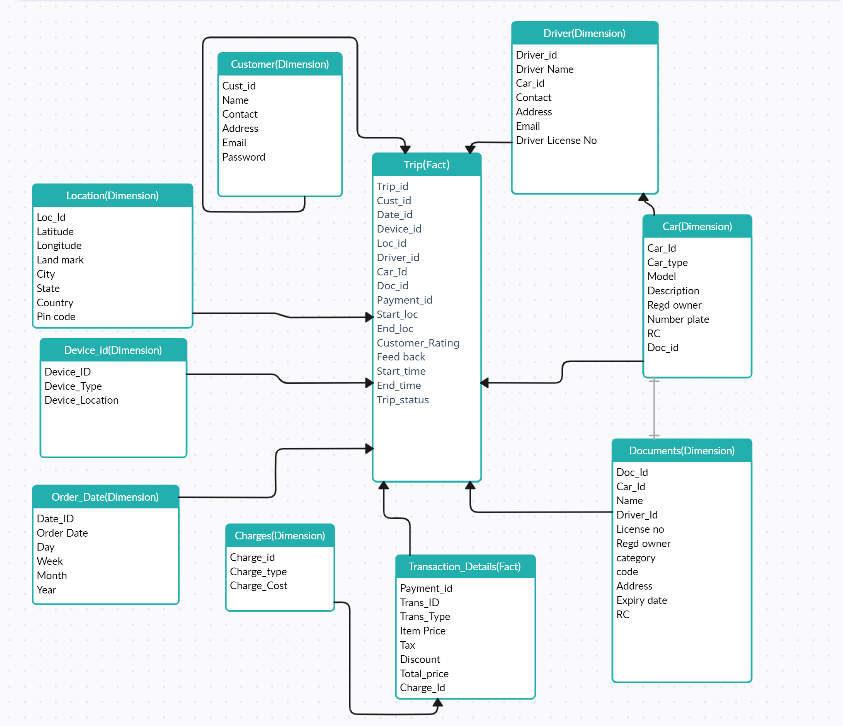
* Individual trip are getting placed on each day on each transaction level

Dimension:

* Customer,Driver,Order\_date,location,device,charges,car,Documents

Fact:

* Trip, Transaction\_details



Get the total price for each and every ride

Select t.trip\_id,td.total\_price from trip t inner join transaction\_details td on t.payment\_id=ta.payment\_id;

Select trip\_id,customer\_rating,

Case

When customer\_rating >=4.5 then ‘Excellent’

When customer\_rating >=4 and customer\_rating <4.5 then ‘Good’

When customer\_rating >=3 and customer\_rating <4 then ‘medium’

Else ‘bad’

End as rating from trip;

4. Design a Data Warehouse for Restaurent table booking app like Dineout (Asked in

McKinsey for Consultant Data Engineer role)

Business process:

* To identity on which time most booking took place
* How many tables are getting booked per each day?
* How many bookings are cancelled per each day?
* Avg price during peak hours per day
* Avg Booking during weekends and special occasions

Grain:

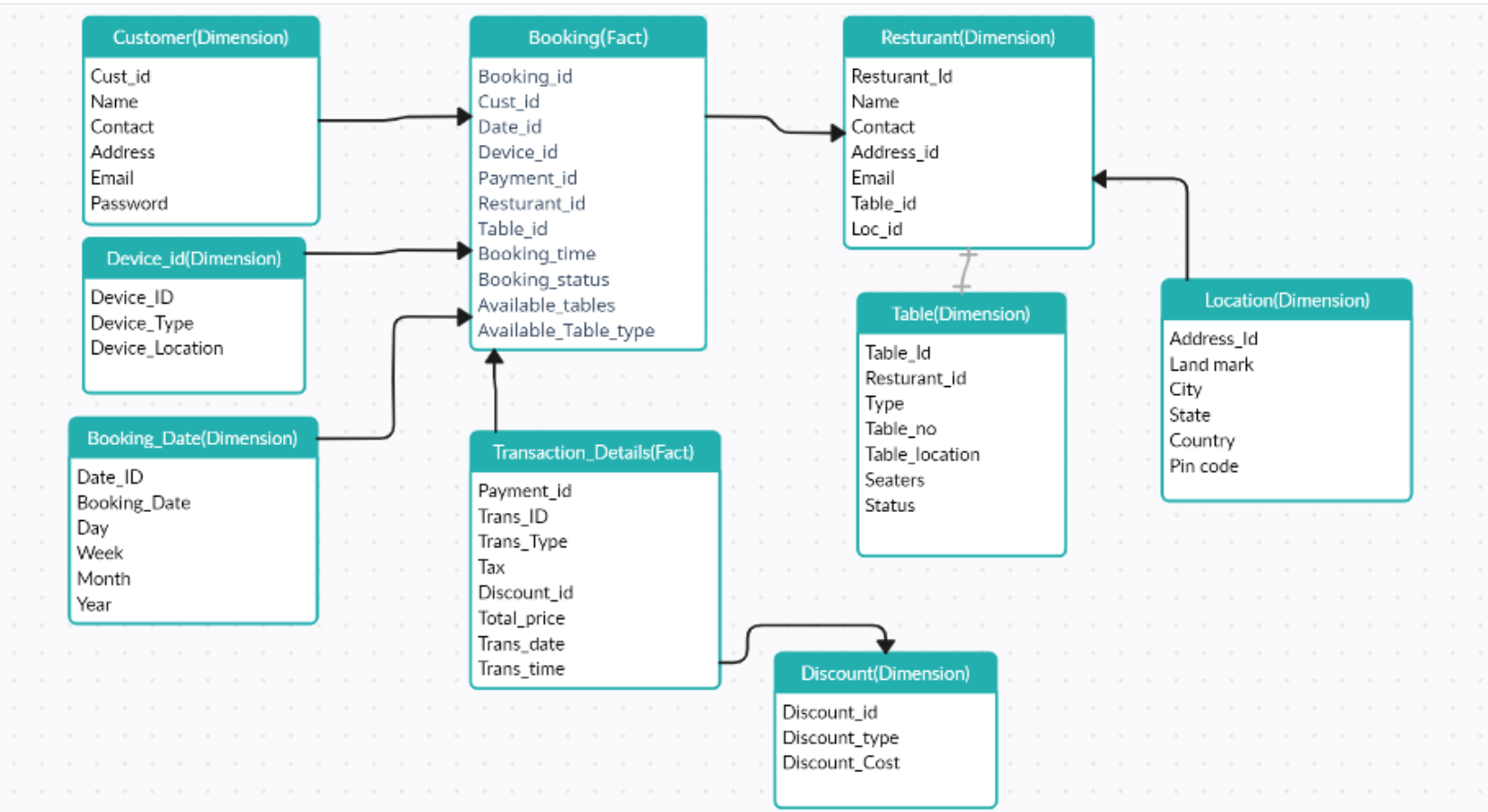
* Individual Bookings are getting placed on each day on each transaction level

Dimension:

* Customer,Resturant,Booking\_date,location,device,discounts,Table.

Fact:

* Booking, Transaction\_details



Total no booking on 12/05/2021

Select b.Booking\_id, d.booking\_date from booking b inner join booking\_date d on b.date\_id = d.date\_id where d.booking date=’12/05/2021’;

Get all the transaction details for booking with name

Select b.booking\_id, c.name, t.\* from booking b inner join customer c on b.cust\_id=c.cust\_id inner join transaction\_details t on b.payment\_id=t.transaction\_details;

Total no of tables in a restaurant

Select r.Resturant\_id, r.name, count(t.Table\_id) from restaurant r inner join table t on r.table\_id=t.table\_id;

5. Design a Data Warehouse for Covid Vaccination Application (Asked in Livsapce for

Data Engineer role)

Business process:

* To identity how many people are vaccinated?
* Most vaccinated drug name.
* To get the total count of vaccines
* Avg booking on vaccines on each day.

Grain:

* Individual bookings on each day

Dimension:

* Booking\_date, vaccine, booster, Vaccine/booster, center, person, room, location, records

Fact:

* Booking

