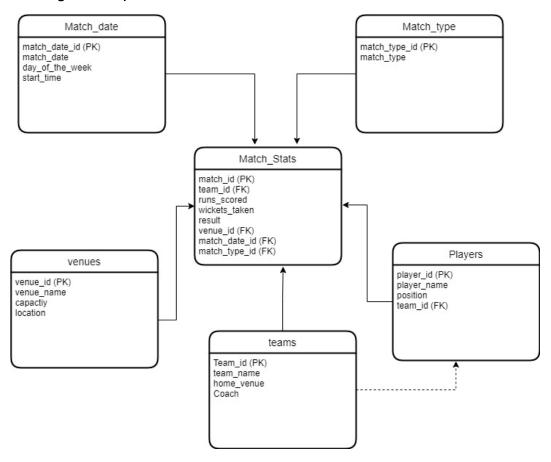
# 1. Design a Data Warehouse for IPL Cricket Tournament (Asked in Flipkart Interview for Senior Data Engineer role).



## -> Total runs scored by each team in a given season:

SELECT t.team\_name, SUM(f.runs\_scored) as total\_runs

FROM teams t

JOIN match\_facts f ON t.team\_id = f.team\_id

GROUP BY t.team\_name

### -> Average runs scored by each player in a given season:

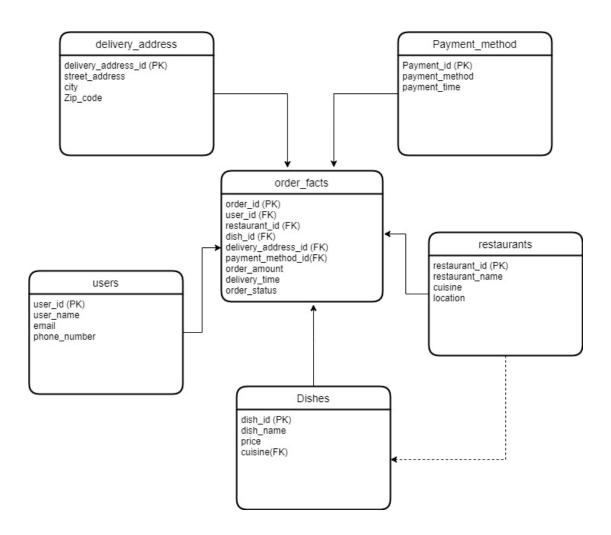
SELECT p.player\_name, AVG(f.runs\_scored) as avg\_runs

FROM players p

JOIN match\_facts f ON p.player\_id = f.player\_id

GROUP BY p.player\_name

### 2) Design a Data Warehouse for Food delivery app like Swiggy, Zomato.



## Total orders placed by each user:

SELECT u.user\_name, COUNT(\*) as total\_orders

FROM users u

JOIN order\_facts f ON u.user\_id = f.user\_id

GROUP BY u.user\_name

### Total orders placed at each restaurant:

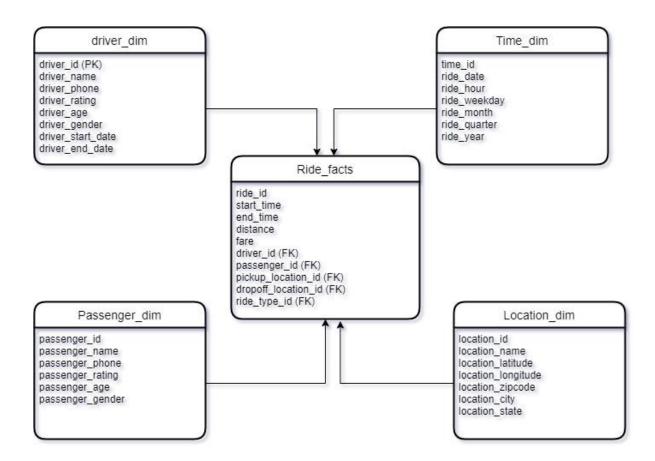
SELECT r.restaurant\_name, COUNT(\*) as total\_orders

FROM restaurants r

JOIN order\_facts f ON r.restaurant\_id = f.restaurant\_id

GROUP BY r.restaurant name

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



## Average rating per driver:

SELECT AVG(driver\_dim.driver\_rating) as avg\_rating, driver\_dim.driver\_name FROM ride\_facts

JOIN driver\_dim ON ride\_facts.driver\_id = driver\_dim.driver\_id

GROUP BY driver\_dim.driver\_name

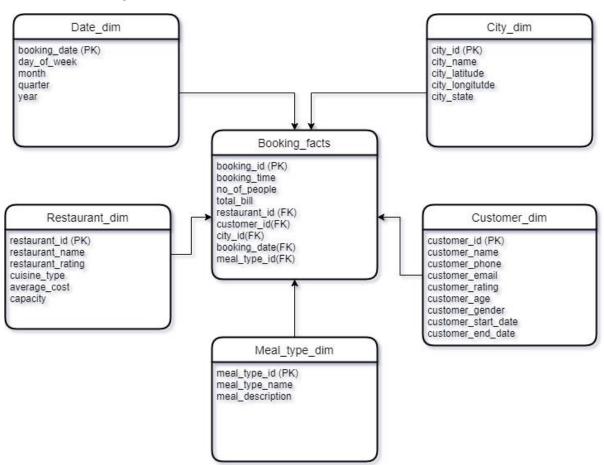
## Total number of rides by location:

SELECT location\_dim.location\_name, COUNT(ride\_facts.ride\_id) as ride\_count FROM ride\_facts

JOIN location\_dim ON ride\_facts.pickup\_location\_id = location\_dim.location\_id

GROUP BY location\_dim.location\_name

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



#### Average total bill by city:

SELECT city\_dim.city\_name, AVG(booking\_facts.total\_bill) as avg\_bill

FROM booking\_facts

JOIN city\_dim ON booking\_facts.city\_id = city\_dim.city\_id

GROUP BY city\_dim.city\_name

This query will return the average total bill for each city, which can help the business understand which cities are the most profitable.

#### Average rating per customer:

SELECT AVG(customer dim.customer rating) as avg rating, customer dim.customer name

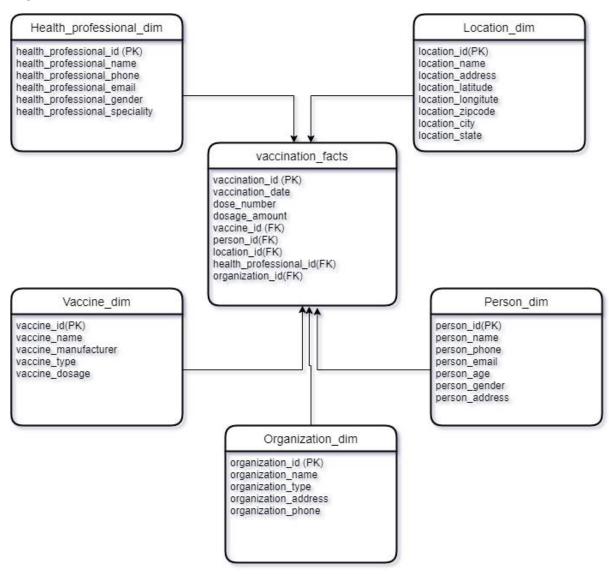
FROM booking\_facts

JOIN customer dim ON booking facts.customer id = customer dim.customer id

GROUP BY customer dim.customer name

This query will return the average rating for each customer, which can help the business understand which customers are the most satisfied.

# 5. Design a Data Warehouse for Covid Vaccination Application (Asked in Livsapce for Data Engineer role)



#### Average dosage amount by vaccine name:

SELECT vaccine\_dim.vaccine\_name, AVG(vaccination\_facts.dosage\_amount) as avg\_dosage

FROM vaccination facts

JOIN vaccine dim ON vaccination facts.vaccine id = vaccine dim.vaccine id

GROUP BY vaccine\_dim.vaccine\_name

#### Number of vaccinations by location:

 ${\tt SELECT\ location\_dim.location\_name,\ COUNT(vaccination\_facts.vaccination\_id)\ as\ vaccination\_count}$ 

FROM vaccination\_facts

JOIN location\_dim ON vaccination\_facts.location\_id = location\_dim.location\_id

GROUP BY location\_dim.location\_name