**Sol1.) Data Warehouse design for IPL cricket tournament**

DIM1 FACT DIM2

**Player Team Country**

Player\_id

Player\_name

Player\_age

Jersey\_no

Email\_id

Contact\_no

Player\_category

International\_exp

Total\_inter\_runs

Total\_inter\_wickets

Domestic\_exp

Total\_domestic\_runs

Total\_domestic\_wickets

Average

Strike Rate

Country\_code

Country\_name

Team\_id

Team\_name

Team\_owner\_name

No\_of\_trophies

Total\_purse\_amt

Player\_id

Country\_code

Player\_base\_price

Player\_sold\_price

Player\_prev\_yr\_price

**SOL2.) Data Warehouse design for Swiggy/Zomato food delivery app**

1. select player\_id,player\_name,(case when international\_exp=0 then ‘Uncapped’ else ‘Capped’ end) as Player\_type from Player;
2. Select p.player\_id,p.player\_name from player p join team t on t.player\_id=p.player\_id where t.player\_base\_price=p.player\_sold\_price;

**DIM1 FACT DIM2**

**Food Order Date**

Food\_course\_id

Course\_type\_name

Food\_item\_name

Restaurant\_id

Order\_date

Month\_name

Year

Day\_name

Order\_id

Food\_course\_id

Quantity

Individual\_price

Order\_date

Order\_time

Delivery\_time

Delivery\_person\_id

**Restaurant DIM3 Delivery\_per\_id**

Restaurant\_id

Restaurant\_name

City

Address

Contact\_no

Delivery\_person\_id

Delivery\_person\_name

Gender

Avg\_rating

Total\_delivery\_done

Complaints\_received

Commision\_pct

1. Update Delivery\_per\_id set Commision\_pct = 1.10\*Commision\_pct where Avg\_Rating>4.5 AND Complaints\_received<=1;
2. Select Order\_id,d.Delivery\_person\_id,d.Delivery\_person\_name from Order o join Delivery\_per\_id d on o.delivery\_person\_id=d.delivery\_person\_id where DATETIMEDIFF(Minute,Delivery\_time,Order\_time)<=30;

**SOL3.) Data Warehouse design for Taxi booking app**

**DIM1 FACT DIM2**

**Customer Trip Driver**

Driver\_id

Driver\_name

Gender

Total\_rides\_done

Avg\_Rating

Complaints\_received

Commision\_pct

Trip\_id

Customer\_id

Driver\_id

Car\_Id

Total\_wait\_time

Source\_place

Destination\_place

Total\_km\_ride

Rate\_per\_km

Transaction\_id

Customer\_id

Customer\_name

Birth\_Date

Gender

City

Address

**DIM3**

**Cars Payment**

Car\_id

Car\_name

Company

Category

Color\_name

Transaction\_id

Mode\_of\_payment

1. Select DATEDIFF(year,CURDATE(),Birth\_Date) as age,count(distinct Customer\_id) as Total\_cust from Customer;
2. Select trip\_id,Customer\_id,d.driver\_id,Car\_id from Driver d join Trip t on t.driver\_id=d.driver\_id where d.Avg\_rating>4.5;
3. Select Trip\_id,Customer\_id ,Car\_id, (Total\_km\_ride\*Rate\_per\_km) as total\_price,Mode\_of\_payment from Trip t join payment p on p.transaction\_id=p.transaction\_id;

**SOL4.) Data Warehouse design for restaurant table booking**

**DIM1 FACT DIM3**

**Customer Order Restaurant**

Restaurant\_id

Restaurant\_name

City

Address

Order\_id

Customer\_id

Restaurant\_id

Table\_id

Booking\_date

Dining\_date

No.of people

Price

Customer\_id

Customer\_name

Gender

Email\_id

Contact\_no

Address

**DIM2 DIM4**

**Table Date**

1. Select Order\_id,Customer\_id,Customer\_name,Restaurant\_name,Table\_type from Restaurant r,Order o,Customer c,Table t on o.restaurant\_id=r.restaurant\_id and o.Customer\_id=c.Customer\_id and o.Table\_id=t.Table\_id;

Booking\_date

Month\_name

Day\_name

Table\_id

Table\_type

**SOL5.) Data Warehouse design for Covid vaccination drive**

**DIM1 FACT DIM2**

**Person Vaccination Vaccine**

Person\_id

Person\_name

Gender

Age

Aadhar\_no

Email\_id

Contact\_no

Location\_id

Vaccine\_id

Vaccine\_name

Person\_id

Vaccine\_id

Hospital\_id

Booking\_id

Certificate\_no

Dose

**DIM3**

**Hospital**

Hospital\_id

State

City

Zip\_code

Doctor\_id

**Location**

Location\_id

State

District

Tehsil

Zip\_code

**Doctors**

1. Select Person\_id,Person\_name,v.Vaccine\_id,Vaccine\_name from Vaccination va join Vaccine v join Person p on va.Person\_id=p.Person\_id and va.vaccine\_id=v.vaccine\_id;

Doctor\_id

Doctor\_name

Gender

Vaccinated