#### ---SELECT STATEMENTS---

2. Dream Home-Maximum cost of flat

```
SELECT floor_no AS FLOOR_NO,MAX(cost_inlakh) AS MAX_PRICE FROM t_flat_details
GROUP BY floor_no
ORDER BY floor_no DESC
```

2. Event Hall-Halls booked more than once

```
select a.hall_name, count(b.hall_id) as no_of_times_booked from t_hall_details a join t_hall_booking b on a.hall_id = b.hall_id group by a.hall_name having length(a.hall_name)>5 and count(b.hall_id)>1 order by a.hall_name desc ;
```

2. Event Hall-Number of booking customer wise

```
select distinct c.customer_id,c.customer_name,count(h.hall_id) as NO_OF_BOOKING from t_customer_details c right join t_hall_booking h on c.customer_id = h.customer_id where h.event_date like '2020%' group by c.customer_id having c.customer_id order by 2;
```

2. Car pooling-Driver booking details based on name select a.booking\_no,b.user\_name,c.driver\_name,a.pickup\_from,a.drop\_at,d.distance from booking a join customer b on a.customer\_id=b.id join driver c on a.driver\_id=c.id join city locations d on ((a.pickup from=d.city1 and

```
a.drop_at=d.city2)or(a.pickup_from=d.city2 and a.drop_at=d.city1))

where upper(c.driver_name)='JOE AMAL'

order by d.distance
```

# 3. Cricket-Number of players in each city

```
select player_city as PLAYER_CITY, count(player_id) as NUMBER_OF_PLAYERS from t_player where player_city not in (select distinct played_city from t_match_record) group by player_city order by NUMBER OF PLAYERS,PLAYER CITY;
```

## 2. Hospital-Number of doctors based on shift

```
select h.shift_time as SHIFT_TIME,count(h.available_doctor) AS NUMBER_OF_DOCTORS from t_hospital h join t_doctor d on d.doctor_id=h.available_doctor where specialization = 'SURGEON' group by shift_time having count(available_doctor)>=1 order by shift_time desc;
```

# 3. Insurance-List of Policies

```
select distinct p.policy_name, p.policy_type
from t_policy p, t_member m
where p.policy_id = m.policy_id
and m.member_id >= '1'
order by policy_name, policy_type asc;
```

### 4. Movie details based on Certification and Duration

```
select movie_id,movie_name,director_name,language from movie_master where certification='U'
and duration>130
order by movie_id;
```

# 5. Patient Appointment Details based on reason

select p.patient\_id,p\_first\_name,p\_age,app\_number,app\_date from appointment a join patient p on a.patient\_id=p.patient\_id where app\_reason='FEVER' order by 1;

#### 6. Student-Room Details

select s.student\_id,student\_name,department,DOJ,r.room\_id, room\_type from student\_details s join admission\_details a on s.student\_id=a.student\_id join room\_details r on r.room\_id=a.room\_id order by 1;

#### ----FUNCTIONS AND SUBQUERIES---

# 4. Car Pooling-Vehicle details

select c.vehicle\_model,c.vehicle\_type,sum(ci.distance)from car c join booking b on b.vehicle\_no=c.vehicle\_no join city\_locations ci on (ci.city1=b.pickup\_from and ci.city2=b.drop\_at)or(ci.city2=b.pickup\_from and ci.city1=b.drop\_at) group by c.vehicle\_type,c.vehicle\_model order by sum(ci.distance);

### 3. Cricket-Average runs of players based on name

select m.player\_id, round(avg(m.player\_runs)) as average\_runs from t\_match\_score\_card m join t\_player p on p.player\_id=m.player\_id where player\_name like 'S%' group by m.player\_id order by average\_runs desc;

#### 4. Dream Home-Customer name details based on total cost

SELECT c.customer\_name,SUM(f.cost\_inlakh) FROM t\_flat\_booking b
JOIN t\_flat\_details f ON b.flat\_no=f.flat\_no
JOIN t\_customer\_details C ON c.customer\_id=b.customer\_id
WHERE LENGTH(c.customer\_name)>'10'
GROUP BY c.customer\_name
ORDER BY customer\_name

# 3. Event Hall-Average cost of booked halls

select CITY,round(avg(cost\_perday),0) as AVERAGE\_COST from t\_hall\_details where hall\_id in(Select hall\_id from t\_hall\_booking) and capacity>150 group by CITY order by average\_cost;

## 4. Hospital-Total fees received based on gender and shift

SELECT t\_patient.gender, sum(t\_doctor.fees) FEES\_RECEIVED
FROM t\_patient

JOIN t\_doctor on t\_doctor.doctor\_id=t\_patient.doctor\_id

JOIN t\_hospital on t\_hospital.available\_doctor=t\_doctor.doctor\_id

WHERE upper(t\_hospital.shift\_time)="MORNING"

GROUP BY t\_patient.gender

ORDER BY t\_patient.gender DESC;

### 3. Insurance-List of Agents

select a.agent\_id,p.policy\_name,sum(p.policy\_sum)as policy\_sum from t\_agent a
join t\_member m on m.agent\_id=a.agent\_id
join t\_policy p on p.policy\_id=m.policy\_id
group by a.agent\_id,p.policy\_name
having count(m.member\_id) >=1
order by a.agent\_id,p.policy\_name,policy\_sum;

# 4.Minimum \_ Maximum Discount Amount

SELECT MIN(DISCOUNT\_AMOUNT) AS MIN\_DISCOUNT, MAX(DISCOUNT\_AMOUNT) AS MAX\_DISCOUNT FROM DISCOUNT MASTER;

# 5. Number of Appointments

SELECT doctor\_id, COUNT(app\_number) as APPOINTMENT\_COUNT FROM appointment GROUP BY doctor\_id ORDER BY doctor\_id;

## 6.Student Details In Capital Case

select student\_id,upper(student\_name) as NAME,department,phone\_no from student\_details where address='BANGALORE' order by student\_id;

# 4. Car Pooling-Maximum time driven driver details

select b.driver\_id, d.driver\_name, count(driver\_id) as MaxTimesDriven from driver d inner join booking b on d.id=b.driver\_id group by b.driver\_id having count(driver\_id)>2 order by b.driver id;

### 5. Cricket-Player details

SELECT DISTINCT p.PLAYER\_ID,p.PLAYER\_NAME,p.PLAYER\_CITY from t\_player p join t\_match\_score\_card s on p.player\_id=s.player\_id join t\_match\_record r on r.match\_id=s.match\_id

WHERE s.waysof\_dismissal='STUMPED' AND r.played\_city='BANGALORE' order by player\_name desc;

### 5. Dream Home -Flat details based on year

```
select a.flat_no FLAT_NO, b.size SIZE, b.area area from t_flat_booking a join t_flat_details b on a.flat_no = b.flat_no where year(a.registration_date) in (select year(b.registration_date) from t_customer_details a join t_flat_booking b on a.customer_id=b.customer_id where upper(a.customer_name='Niraj Kumar')) order by area asc,a.flat_no desc;
```

# 5. Hospital-Maximum fees paid patient details

```
select p.patient_name , d.doctor_name , d.fees as 'fees_paid' , h.shift_time as 'checkup_done' from t_patient p join t_doctor d on p.doctor_id = d.doctor_id join t_hospital h on h.available_doctor = d.doctor_id where d.fees>( select max(fees) from t_doctor where specialization = 'DERMA') order by d.doctor name , p.patient name;
```

### 5. Insurance-Agent details

```
select count(b.member_id) as NUMBER_OF_MEMBERS,a.agent_name as AGENT_NAME from t_agent a join t_member b on a.agent_id=b.agent_id where a.agent_name like 'S%' or a.agent_name like 's%' group by a.agent_name order by AGENT_NAME,NUMBER_OF_MEMBERS asc;
```

### 6. Concatenating Details

SELECT CONCAT(MOVIE\_NAME," is a ",LANGUAGE," Movie") AS MOVIE\_DETAILS FROM MOVIE\_MASTER

ORDER BY MOVIE DETAILS DESC;

## 7. Patient Appointment details Based On Month

#### **SELECT**

DISTINCT(PATIENT\_ID),P\_FIRST\_NAME,P\_AGE,ADDRESS,CONTACT\_NUMBER FROM PATIENT
WHERE PATIENT\_ID IN(SELECT PATIENT\_ID FROM APPOINTMENT WHERE APP\_DATE BETWEEN '2019-06-01' AND '2019-06-31')
ORDER BY PATIENT ID;

#### 8. Room Details Based On Location

#### select

ROOM\_DETAILS.ROOM\_ID,ROOM\_DETAILS.ROOM\_TYPE,ROOM\_DETAILS.MEMBER
\_CAPACITY,ROOM\_DETAILS.ROOM\_RENT
from ROOM\_DETAILS
 inner join HOSTEL\_DETAILS
 on ROOM\_DETAILS.HOSTEL\_ID=HOSTEL\_DETAILS.HOSTEL\_ID
where HOSTEL\_DETAILS.LOCATION = 'PHASE-A'
 order by ROOM\_DETAILS.ROOM\_ID;

-----

#### 2.Update t\_flat\_details

Cost\_in\_lakh=case

Set

```
Set cost_inlakh = cost_inlakh +(cost_inlakh 0.01)

Where size="1BHK" and floor_no =3;

Update t_flat_details Set cost_inlakh = cost_inlakh +(cost_inlakh 0.02)

Where size="2BHK" and floor_no =3;

Or

Update
    t flat details
```

```
When size="1BHK" THEN cost in lakh+(cost in lakh*0.01)
     ELSE cost_in_lakh+(cost_in_lakh *0.02)
Where
    Floor_no=3 and size in("1BHK","2BHK");
5.Flat details based on year
Select a.flat_no FLAT_NO,b.size SIZE,b.area AREA
From t flat booking a
Join t_flat_details b
On a.flat_no=b.flat_no
Where
Datepart(year,a.registeratio n_date) in
(Select Datepart(year,b.registeratio n_date)
Or
WHERE EXTRACT (YEAR FROM a.registration date)
IN (SELECT
EXTRACT(YEAR FROM b.registration date)
From t_customer_details a Join t_flat booking b. On
a.customer id=b.customer
Where
Upper(a.customer name)=' NIRAJ KUMAR')
Order by b.area asc,
a.flat_no desc
4. Total cost
Select a.customer_name CUSTOMER_NAME,Sum(c.cost_inlakh)
TOTAL_COST
From
T customer details a
Join T flat booking b
a.customer_id=b.customer_id
Join T flat details c
c.flat no=b.flat no Where
length(a.customer_name)>10
Group by
a.customer_name
Order by
a.customer name
Or
Select a.customer name as CUSTOMER NAME, sum(c.cost inlakh)
as TOTAL_COST from t_customer_detials a
join
T_flat_booking b
on a.customer_id=b.customer_id
t flat details c
on
c.flat_no-b.flat_no
Where
Length(a.customer_name)>10
group by a.customer_name
order by a.customer_name
```

# 1. Max cost of flat

Select FLOOR\_NO,max(COST\_INLAKH) AS MAX\_PRICE FROM t\_flat\_details Group by FLOOR\_NO Order by FLOOR\_NO desc;

#### 2 alter table

Alter table[tablename] Add [column name][data type]

Drop Column[column\_name]

Alter column[column\_name] data type

-----

## 1)PIZZA STORE-ALTER TABLE FOREIGN KEY

ALTER TABLE PIZZA ADD FOREIGN KEY (cust\_id) REFERENCES CUSTOMER(cust\_id), ADD FOREIGN KEY (partner id) REFERENCES DELIVERY PARTNER(partner id);

### 1.1) UPDATE PIZZA TABLE DISCOUNT

UPDATE pizza set amount = (amount \* 95)/100 Where pizza\_type = " Extra Large" ;

#### 1)Total cost OF PIZZA ORDERED -FUNCTION ANS SUBQUERY

select cust\_id, pizza\_name, count(\*) as 'Times taken', sum(amount) as 'Total cost' from pizza where amount > 1200 group by pizza name, cust id order by 1;

### 2)PIZZA-Delivery partner details-RDBMS SELECT

Select partner\_id,cust\_id,count(cust\_id) as times\_required from pizza group by partner\_id, cust\_id having count(cust\_id)>1

Order by partner id

# 3) PIZZA FRAMING Password-SCALAR & AGGREGATE

SELECT CONCAT(cust\_name,cust\_id) AS USERNAME,
CONCAT(SUBSTRING(cust\_name, 1, 3), SUBSTR(cust\_phone, -4)) AS PASSWORD
FROM customer
ORDER BY USERNAME:

### 4) Extra large pizza

Select c.cust\_id, c.cust\_name, p.pizza\_name, count(p.pizza\_id) as "# times", sum(p.amount) as total\_Amount

From pizza p, customer c Where p.cust\_id = c.cust\_id

And lower(p.pizza\_type) like 'extra%'

Group by c.cust\_name, c.cust\_id, p.pizza\_name

having sum(p.amount) > 4\*(select min(amount) from pizza)

Order by c.cust\_id desc;

## 5)pizza low cost and High cost pizza

SELECT distinct pizza\_name,pizza\_type, amount from pizza where amount IN(SELECT MAX(amount) from pizza) or amount IN(SELECT MIN(amount) from pizza) limit 2;

# -----QUESTION NOT THERE-----

select shift\_time,count(available\_doctor) as NUMBER\_OF\_DOCTORS from t\_hospital join t\_doctor on available\_doctor=doctor\_id where available\_doctor in (select doctor\_id from t\_doctor where specialization='SURGEON') group by shift\_time order by shift time desc;

select b.customer\_id as CUSTOMER\_ID , c.customer\_name as CUSTOMER\_NAME, count(b.hall\_id) as NO\_OF\_BOOKING

FROM t\_customer\_details c
join t\_hall\_booking b on b.customer\_id = c.customer\_id
where c.customer\_name like 'S%' and b.event\_date between '2020-01-01' and '2020-12-31'
group by b.customer\_id
order by c.customer\_name;

-----

#### -----DDL SQL-----

2) Car Pooling - Update booking table 1.2

update booking

t match record (match id);

```
set fare=(select min(distance)*11 from city locations ct
join booking b On b.pickup from=ct.city1 AND b.drop at=ct.city2);
       Car Pooling- Create BOOKING table 1.1
  3)
create table booking (
booking no varchar(50),
pickup from varchar(50),
drop at varchar(50),
customer id varchar(50),
vehicle no varchar(50),
driver id varchar(50),
fare decimal(7,2),
primary key (booking no),
foreign key (customer id) references customer(id),
foreign key (vehicle no) references car(vehicle no),
foreign key (driver id) references driver(id)
);
4)Create Movie Master table set1
create table Movie Master(
MOVIE ID varchar(5) primary key,
MOVIE_NAME varchar(4) not null,
DIRECTOR NAME varchar(4) not null,
CERTIFICATION varchar(4) not null,
DURATION INT(3),
LANGUAGE varchar(10)
);
5)Cricket -Alter T MATCH SCORE CARD table(1.1)
alter table t_match_score_card add foreign key (match_id) references
```

```
alter table t match score card add foreign key (player id) references
t player(player id);
6) Cricket-Update T_PLAYER table(1.2)
update t player
set total wickets=case
when(player city='BANGALORE' and player name like 'A%')
THEN total wickets+5
when(player_city='DELHI' and player_name like 'A%')
THEN total wickets+7
ELSE total wickets
END;
7) Dream Home- Alter table t flat booking1.1
alter table t flat booking modify payment completed varchar(5) not null;
8) Event Hall- Alter table Hall Booking 1.1
alter table t hall booking
modify hall id varchar(10) not null;
alter table t hall booking
add foreign key(hall id) references t hall details(hall id);
9) Event Hall-Alter T HALL BOOKING table 1.1
alter table t hall booking
modify hall id varchar(10) not null;
alter table t hall booking
add foreign key(hall id) references t hall details(hall id);
alter table t hall booking
modify customer id varchar(10) not null;
alter table t hall booking
add foreign key(customer id) references t customer details(customer id);
10) Hospital- Add a new column set1
```

```
alter table doctor add column dr contact number int(10);
11) Hospital- Alter T_HOSPITAL table 1.1
alter table t hospital
add foreign key (available doctor) references t doctor(doctor id);
12) Hospital- Change the datatype column
alter table patient modify
contact number int(10);
alter table patient change p age patient age int;
13) Hospital-Update T DOCTOR table 1.2
update t doctor set fees=350
where specialization="ENT" and doctor name like "J%";
update t doctor set fees=600
where specialization="DERMA" and doctor name like "J%";
update t doctor set fees=null
where specialization="SURGEON" and doctor name like "J%";
update t doctor set fees=null
where specialization="ORTHO" and doctor name like "J%";
14) Hostel-Insert Student Records
insert into Student details values
('S1001','Varsha','ECE','1999-06-12','CHENNAI',9845712345,'varsha123@gmail.com'),
('S1002','William','ECE','1999-02-04','CALCUTTA',6845712345,'william123@gmail.com'),
('S1003', 'Basha', 'EEE', '1999-06-14', 'DELHI', 9945712345, 'basha222@gmail.com'),
('S1004', 'Catherine', 'CSE', '1998-08-16', 'DELHI', 6785712345, 'cathu123@gmail.com'),
('S1005', 'Kate', 'ECE', '1999-06-30', 'BANGALORE', 7685712345, 'katedd@gmail.com'),
('S1006', 'Michel', 'ECE', '1998-06-04', 'COIMBATORE', 6645712345, 'michel000@gmail.com');
15) Hostel-Update Student Record
UPDATE STUDENT DETAILS
SET EMAIL ID='mic.hudson@gmail.com'
```

WHERE STUDENT ID='S1006';

```
16) Insurance- Alter table-add constraint(1.1)
```

```
alter table T_MEMBER

ADD foreign key(AGENT_ID) references T_AGENT(agent_id),

ADD foreign key(POLICY_ID) references T_POLICY(policy_id);
```

17) Insurance-Update Agent details(1.2)

```
Update t_agent
set target_policy_sum=case
when upper(agent_city)='PUNE' and upper(agent_id) like 'M%'
then 400000
when upper(agent_city)='CHENNAI' and upper(agent_id) like 'M%'
then 250000
else target_policy_sum
end;
```

18) Movie - Modify the datatype

ALTER TABLE CUSTOMER\_MASTER MODIFY COLUMN PHONE\_NO INT(10);