

\\Queries

1.list the name of the branch and their avg cutoff of the year;

```
CREATE VIEW branch_wise_cutoff AS
select c_code,c_name,avgCutoff from COURSES join (select cs_id,avg(cutoff) as AvgCutoff
from offers group by cs_id) AS R1
on COURSES.c_code = R1.cs_id;
select * from branch_wise_cutoff;
```

2.Show the gender wise registration count.

```
select gender,count(s_id) as registration from STUDENTS group by gender;
```

3. name of the students who registers for less than 2 preference

```
select s_id,f_name,l_name from students as s
join
(
select distinct stu_id from registers where preference='1'
except
select distinct stu_id from registers where preference='2'
) as r1
on
s.s_id = r1.stu_id
;
```

4.select details of student which registers for colleges but didn't get any seat.

```
select * from students as s
join
(select distinct stu_id from registers
except
select distinct stud_id from choicaset) as r1
on r1.stu_id = s.s_id;
```

5. select the details of students which got their first preference colleges.

```
select f_name,stud_id,cour_id,insti_id from students as s
join
(select stud_id,cour_id,insti_id from registers join choicaset
```

```
on
stud_id = stu_id and c_id = cour_id and ins_id = insti_id
where preference = 1) as r1
on s.s_id = r1.stud_id;
```

**(Note: please execute queries which are mentioned below because i have inserted a verification center value twice)

```
delete from verification_center where center_id='110';
insert into verification_center values('110','R.L.SHAH');
```

6.List the details of verification centers which are feasible for students of particular state.(state = gujrat).

```
select center_id,iname as c_name,incharge,city,state
from verification_center join institute
on center_id = inst_id
where state ='GUJRAT';
```

7.show the details of students whom college is allotted but does not take admission.

```
CREATE VIEW does_not_take_admission AS
select s_id,f_name||' '||l_name as name,gender,city,state from
students as s
join
(
select stud_id from choiceset
except
select stud_id from admitted) as r1
on s.s_id = r1.stud_id;
```

```
SELECT * from does_not_take_admission;
```

8.show the details of students and institute who got admitted in the institute which is in their own state.

```
select s_id,f_name||' '||l_name as name,gender,s.state from students as s
join
(
select stud_id,ins_id,iname,type,state from institute join admitted
on
inst_id = ins_id
) as i
on s.s_id = i.stud_id
where s.state = i.state;
```

9.no of seats left in each institute of each course after admission.

```
CREATE VIEW seat_left AS
select inst_id,iname as institute,cs_id,seat_left from institute natural join
(
select inst_id,cs_id,toatal_seats-fs as seat_left
from
(select inst_id,cs_id,toatal_seats,COALESCE(r1.count,0) as fs
from
offers left join
(select ins_id,c_id,count(stud_id) from admitted group by (c_id,ins_id)) as r1
on inst_id=ins_id and c_id=cs_id) as r2) as r3
order by inst_id;
select * from seat_left;
```

10. Show the institute name,type and coursewise cutoff where coursewise cutoff is maximum.

```
select r4.inst_id,iname,r4.cs_id,max_cutoff from
institute
join
(
select inst_id,r1.cs_id,max_cutoff from
(select cs_id,max(cutoff) as max_cutoff from offers group by cs_id) as r1
join
(select cs_id,inst_id,cutoff from offers) as r2
```

```
on
r1.cs_id = r2.cs_id where cutoff = max_cutoff
) as r4
on
institute.inst_id = r4.inst_id;
```