

```
create schema alloc;  
set search_path to alloc;
```

```
create table INSTITUTE(  
  INST_Id CHAR(3),  
  INAME VARCHAR(20) NOT NULL,  
  TYPE VARCHAR(20) NOT NULL,  
  STATE VARCHAR(20),  
  CITY VARCHAR(20),  
  PRIMARY KEY(INST_ID));
```

```
create table STUDENTS(  
  
  S_ID CHAR(15) PRIMARY KEY,  
  F_Name VARCHAR(30) NOT NULL,  
  L_Name VARCHAR(30),  
  Marks integer,  
  State VARCHAR(40),  
  City VARCHAR(40),  
  Gender VARCHAR );
```

```
create table COURSES  
(  
  c_code VARCHAR(20) PRIMARY KEY,  
  c_name VARCHAR(40),  
  cutoff INTEGER NOT NULL  
);
```

```
create table OFFERS  
(  
  cs_id VARCHAR(20) REFERENCES COURSES(c_code)  
  ON DELETE CASCADE ON UPDATE CASCADE,  
  inst_id CHAR(3) REFERENCES INSTITUTE(INST_Id)  
  ON DELETE CASCADE ON UPDATE CASCADE,  
  toatal_seats INTEGER NOT NULL  
);
```

```
ALTER TABLE ONLY offers
  ADD CONSTRAINT offers_pkey PRIMARY KEY (inst_id,cs_id);
```

```
create table REGISTERS
(
  Stu_id CHAR(15) references students (S_ID)
    on delete cascade on update cascade,
  Cour_id VARCHAR(20),
  Ins_id CHAR(3),
  Preference integer,
  Reg_date date NOT NULL,
  PRIMARY KEY (Stu_id,Cour_id,Ins_id)
);
```

```
ALTER TABLE ONLY registers
  ADD CONSTRAINT registers_pid_fkey FOREIGN KEY (Cour_id,ins_id) REFERENCES
  offers(inst_id,cs_id) ON DELETE CASCADE ON UPDATE CASCADE;
```

```
create table CHOICESSET
(
  STUD_ID CHAR(15),
  C_ID CHAR(20),
  INSTI_ID CHAR(3) ,
  PRIMARY KEY (STUD_ID , C_ID , INSTI_ID)
);
```

```
ALTER TABLE ONLY choiceset
  ADD CONSTRAINT choiceset_pid_fkey FOREIGN KEY (STUD_ID , C_ID , INSTI_ID)
  REFERENCES registers (Stu_id,Cour_id,Ins_id) ON DELETE CASCADE ON UPDATE
  CASCADE;
```

```
create table admitted(  
  adm_date DATE,  
  stud_id char(15),  
  c_id varchar(20),  
  ins_id char(3),  
  PRIMARY KEY (adm_date, stud_id , c_id , ins_id)  
);
```

```
ALTER TABLE ONLY admitted  
ADD CONSTRAINT admitted_pid_fkey FOREIGN KEY (stud_id , c_id , ins_id) REFERENCES  
choiceset(STUD_ID , C_ID , INSTI_ID) ON DELETE CASCADE ON UPDATE CASCADE;
```

```
create table VERIFICATION_CENTER(  
  Incharge VARCHAR(20),  
  stu_id CHAR(15),  
  cou_id VARCHAR(20),  
  ins_id CHAR(3)
```

```
);
```

```
ALTER TABLE ONLY verification_center  
ADD CONSTRAINT verification_pid_fkey FOREIGN KEY (stu_id , cou_id , ins_id)  
REFERENCES choiceset(STUD_ID , C_ID , INSTI_ID) ON DELETE CASCADE ON UPDATE  
CASCADE;
```

```
//some changes in institute table  
Alter table institute add state varchar(20);  
Alter table institute drop seats; // nice !
```

```
// some changes in course and offers table  
Alter table courses drop cutoff;  
Alter table offers add cutoff INTEGER NOT NULL;  
alter table courses alter column c_name TYPE varchar(70);
```

#insertion in institute table - 21 values

```
insert into institute values('101','IIT BOMBAY','IIT','MUMBAI','MAHARASHTRA');
insert into institute values('102','IIT DELHI','IIT','DELHI','DELHI');
insert into institute values('103','IIT KHARAGPUR','IIT','KHARAGPUR','WEST BENGAL');
insert into institute values('104','IIT KANPUR','IIT','KANPUR','UTTAR PRADESH');
insert into institute values('105','IIT BHU','IIT','VARANASI','UTTAR PRADESH');
insert into institute values('106','IIT PATNA','IIT','PATANA','BIHAR');
insert into institute values('107','IIT ROORKEE','IIT','ROORKEE','UTTARAKHAND');
insert into institute values('108','IIT ISM DHANBAD','IIT','DHANBAD','JHARKHAND');
insert into institute values('109','IIT HYDERABAD','IIT','HYDERABAD','TELANGANA');
insert into institute values('110','IIT GANDHINAGAR','IIT','GANDHINAGAR','GUJRAT');
```

```
insert into institute values('201','NIT TRICHY','NIT','TIRUCHIRAPALLI','TAMILNADU');
insert into institute values('202','SVNIT SURAT','NIT','SURAT','GUJRAT');
insert into institute values('206','MANIT BHOPAL','NIT','BHOPAL','MADHYA PRADESH');
insert into institute values('203','VNIT NAGPUR','NIT','NAGPUR','MAHARASHTRA');
insert into institute values('204','NIT WARANGAL','NIT','WARANGAL','TELANGANA');
insert into institute values('205','NIT ROURKELA','NIT','ROURKELA','ODISHA');
```

```
insert into institute values('301','IIIT VADODARA','IIIT','GANDHINAGAR','GUJRAT');
insert into institute values('302','IIIT GWALIOR','IIIT','GWALIOR','MADHYA PRADESH');
insert into institute values('303','IIIT PUNE','IIIT','PUNE','MAHARASHTRA');
insert into institute values('304','IIIT KANCHIPURAM','IIIT','KANCHIPURAM','TAMILNADU');
insert into institute values('305','IIIT ALLAHABAD','IIIT','PRAYAGRAJ','UTTAR PRADESH');
```

# inserting values in courses table - 5 values

```
insert into courses values('CSE','COMPUTER SCIENCE ENGINEERING');
insert into courses values('IT','INFORMATION TECHNOLOGY');
insert into courses values('ECE','ELECTRONICS AND COMMUNICATION ENGINEERING');
insert into courses values('ME','MECHANICAL ENGINEERING');
insert into courses values('EE','ELECTRICAL ENGINEERING');
```

#inserting into offers table - 76

```
insert into offers values('CSE','101','40',250);
insert into offers values('ME','101','40',200);
insert into offers values('EE','101','40',170);
insert into offers values('ECE','101','40',180);
```

```
insert into offers values('CSE','102','40',240);
insert into offers values('ME','102','40',190);
insert into offers values('EE','102','40',168);
insert into offers values('ECE','102','40',178);
```

```
insert into offers values('CSE','103','40',235);
insert into offers values('ME','103','40',185);
insert into offers values('EE','103','40',165);
insert into offers values('ECE','103','40',175);
```

```
insert into offers values('CSE','104','40',232);
insert into offers values('ME','104','40',180);
insert into offers values('EE','104','40',162);
insert into offers values('ECE','104','40',172);
```

```
insert into offers values('CSE','105','40',228);
insert into offers values('ME','105','40',178);
insert into offers values('EE','105','40',160);
insert into offers values('ECE','105','40',170);
```

```
insert into offers values('CSE','106','60',225);
insert into offers values('ME','106','60',175);
insert into offers values('EE','106','60',160);
```

```
insert into offers values('CSE','107','60',225);
insert into offers values('ME','107','60',176);
insert into offers values('EE','107','60',158);
```

```
insert into offers values('CSE','108','40',222);
insert into offers values('ME','108','40',172);
insert into offers values('EE','108','40',155);
insert into offers values('ECE','108','40',165);
```

```
insert into offers values('CSE','109','40',220);
insert into offers values('ME','109','40',170);
insert into offers values('EE','109','40',152);
```

insert into offers values('ECE','109','40',160);

insert into offers values('CSE','110','40',220);

insert into offers values('ME','110','40',100);

insert into offers values('EE','110','40',150);

insert into offers values('ECE','110','40',155);

insert into offers values('CSE','201','50',220);

insert into offers values('ME','201','50',180);

insert into offers values('EE','201','50',160);

insert into offers values('ECE','201','50',170);

insert into offers values('CSE','202','40',190);

insert into offers values('IT','202','40',170);

insert into offers values('ME','202','40',160);

insert into offers values('EE','202','40',140);

insert into offers values('ECE','202','40',150);

insert into offers values('CSE','203','50',200);

insert into offers values('ME','203','50',170);

insert into offers values('EE','203','50',155);

insert into offers values('ECE','203','50',160);

insert into offers values('CSE','204','50',210);

insert into offers values('ME','204','50',175);

insert into offers values('EE','204','50',150);

insert into offers values('ECE','204','50',165);

insert into offers values('CSE','205','40',205);

insert into offers values('IT','205','40',180);

insert into offers values('ME','205','40',165);

insert into offers values('EE','205','40',148);

insert into offers values('ECE','205','40',168);

insert into offers values('CSE','206','50',195);

insert into offers values('ME','206','50',166);

insert into offers values('EE','206','50',145);

insert into offers values('ECE','206','50',162);

insert into offers values('CSE','301','80',170);

insert into offers values('IT','301','80',150);

```
insert into offers values('CSE','302','60',185);
insert into offers values('IT','302','60',175);
insert into offers values('ECE','302','60',150);
```

```
insert into offers values('CSE','303','80',160);
insert into offers values('IT','303','80',140);
```

```
insert into offers values('CSE','304','80',180);
insert into offers values('IT','304','80',170);
```

```
insert into offers values('CSE','305','60',190);
insert into offers values('IT','305','60',180);
insert into offers values('ECE','305','60',160);
```

# Inserting into Students table - 24

```
INSERT INTO students VALUES(20171, 'ABHISHEK', 'SHARMA',240,'UTTAR PRADESH' ,
'PRAYAGRAJ' , 'M');
INSERT INTO students VALUES(20172, 'AAYUSH', 'DHEEMER',230,'MADHYA PRADESH'
, 'GWALIOR' , 'M');
INSERT INTO students VALUES(20173, 'AMAN', 'SINGH',190,'GUJARAT' , 'SURAT' , 'M');
INSERT INTO students VALUES(20174, 'SHASHANK', 'GUPTA',180,'MADHYA PRADESH' ,
'BHOPAL' , 'M');
INSERT INTO students VALUES(20175, 'SAURABH', 'SINGH',188, 'UTTAR PRADESH' ,
'GORAKHPUR' , 'M');
INSERT INTO students VALUES(20176, 'DEV', 'DK BOSE', 155 , 'JHARKHAND' ,
'RANCHI' , 'M');
INSERT INTO students VALUES(20177, 'ANJALI', 'PRIYA', 177 , 'BIHAR' , 'PATNA' , 'F');
INSERT INTO students VALUES(20178, 'VIKAS', 'sharma',173,'RAJASTHAN' , 'JAIPUR'
, 'M');
INSERT INTO students VALUES(20179, 'PRAJWAL', 'ROTHE', 178,'MAHARASHTRA' ,
'MUMBAI' , 'M');
INSERT INTO students VALUES(20180, 'BHAVESH', 'PATEL', 188 , 'MADHYA PRADESH' ,
'BHUSAVAL' , 'M');
INSERT INTO students VALUES(20181, 'MEENAL', 'SALVI', 175 , 'RAJASTHAN' ,
'UDAIPUR' , 'F');
INSERT INTO students VALUES (20182, 'ANUSHA' , 'GUPTA' , 152 , 'MADHYA
PRADESH' , 'JABALPUR' , 'F');
```

```

INSERT INTO students VALUES (20183, 'VAISHALI' , 'DUBEY' , 148 , 'UTTAR
PRADESH' , 'BANARAS' , 'F' );
INSERT INTO students VALUES (20184, 'SHIVANGI' , 'KAPADIA' , 163 , 'GUJARAT' ,
'GANDHINAGAR' , 'F' );
INSERT INTO students VALUES (20185, 'KSHITIZ' , 'GANGWAR' , 128 , 'DELHI' ,
'GURUGRAM' , 'M' );
INSERT INTO students VALUES (20186, 'SAWAI' , 'JAIN' , 179 , 'TAMILNADU' ,
'KANCHIPURAM' , 'M' );
INSERT INTO students VALUES (20187, 'PREETI' , 'YADAV' , 229 , 'UTTAR
PRADESH' , 'LUCKNOW' , 'F' );
INSERT INTO students VALUES (20188, 'KESHAV' , 'PUROHIT' , 185 ,
'MAHARASHTRA' , 'MUMBAI' , 'M' );
INSERT INTO students VALUES (20189, 'PRAKHAR' , 'GUPTA' , 166,
'CHHATISGARH' , 'RAIPUR' , 'M' );
INSERT INTO students VALUES (20190, 'JOSHUA' , 'PODUKU' , 220 ,
'MAHARASHTRA' , 'PUNE' , 'M' );
INSERT INTO students VALUES (20191, 'VAIDEHI' , 'VAISHNAV' , 191 , 'GUJARAT' ,
'AHMEDABAD' , 'F' );
INSERT INTO students VALUES (20192, 'SHUBHAM' , 'SHARMA' , 100 , 'UTTAR
PRADESH' , 'FARUKHABAD' , 'M' );
INSERT INTO students VALUES (20193, 'ANUPMA' , 'GUPTA' , 80 , 'UTTAR
PRADESH' , 'AGRA' , 'F' );
INSERT INTO students VALUES (20194, 'ALOK' , 'PANCHAL' , 97 , 'MADHYA
PRADESH' , 'JABALPUR' , 'M' );

```

\\Changes in registers

Alter table registers drop constraint registers\_pid\_fkey;

ALTER TABLE ONLY registers

ADD CONSTRAINT myfkey FOREIGN KEY (ins\_id,cour\_id ) REFERENCES  
offers(inst\_id,cs\_id) ON DELETE CASCADE ON UPDATE CASCADE;

#inserting into registers table - 47

```

insert into registers values ( 20171 , 'CSE' , 101 , 1 , '2017-06-15' );
insert into registers values ( 20171 , 'ME' , 101 , 2 , '2017-06-15' );

```

```

insert into registers values ( 20172 , 'ME' , 101 , 1 , '2017-06-17' );
insert into registers values ( 20172 , 'ME' , 102 , 2 , '2017-06-17' );

```



insert into registers values ( 20173 , 'CSE' , 104 , 1 , '2017-06-17' );  
insert into registers values ( 20173 , 'ME' , 104 , 2 , '2017-06-17 ' );

insert into registers values ( 20174 , 'CSE' , 305 , 1 , '2017-06-16' );  
insert into registers values ( 20174 , 'CSE' , 304 , 2 , '2017-06-16 ' );

insert into registers values ( 20175 , 'ME' , 102 , 1 , '2017-06-16 ' );  
insert into registers values ( 20175 , 'ME' , 103 , 2 , '2017-06-16' );

insert into registers values ( 20176 , 'EE' , 103 , 1 , '2017-06-17' );  
insert into registers values ( 20176 , 'IT' , 301 , 2 , '2017-06-17 ' );

insert into registers values ( 20177 , 'CSE' , 304 , 1 , '2017-06-17' );  
insert into registers values ( 20177 , 'CSE' , 301 , 2 , '2017-06-17' );

insert into registers values ( 20178 , 'CSE' , 204 , 1 , '2017-06-15' );  
insert into registers values ( 20178 , 'IT' , 301 , 2 , '2017-06-15' );

insert into registers values ( 20179 , 'EE' , 105 , 1 , '2017-06-15' );  
insert into registers values ( 20179 , 'CSE' , 301 , 2 , '2017-06-15' );

insert into registers values ( 20180 , 'CSE' , 202 , 1 , '2017-06-16' );  
insert into registers values ( 20180 , 'ME' , 201 , 2 , '2017-06-16 ' );

insert into registers values ( 20181 , 'ME' , 104 , 1 , '2017-06-17' );  
insert into registers values ( 20181 , 'EE' , 102 , 2 , '2017-06-17' );

insert into registers values ( 20182 , 'ECE' , 104 , 1 , '2017-06-15' );  
insert into registers values ( 20182 , 'EE' , 204 , 2 , '2017-06-15 ' );

insert into registers values ( 20183 , 'ECE' , 201 , 1 , '2017-06-16' );  
insert into registers values ( 20183 , 'IT' , 303 , 2 , '2017-06-16' );

insert into registers values ( 20184 , 'CSE' , 109 , 1 , '2017-06-15' );  
insert into registers values ( 20184 , 'ECE' , 109 , 2 , '2017-06-15' );

insert into registers values ( 20185 , 'ECE' , 305 , 1 , '2017-06-16' );  
insert into registers values ( 20185 , 'EE' , 202 , 2 , '2017-06-16' );

```
insert into registers values ( 20186 , 'CSE' , 107 , 1 , '2017-06-15 ' );
insert into registers values ( 20186 , 'ME' , 107 , 2 , '2017-06-15 ' );
```

```
insert into registers values ( 20187 , 'CSE' , 101 , 1 , '2017-06-17 ' );
insert into registers values ( 20187 , 'CSE' , 107 , 2 , '2017-06-17 ' );
```

```
insert into registers values ( 20188 , 'ME' , 104 , 1 , '2017-06-15 ' );
insert into registers values ( 20188 , 'ECE' , 103 , 2 , '2017-06-15 ' );
```

```
insert into registers values ( 20189 , 'CSE' , 205 , 1 , '2017-06-16 ' );
insert into registers values ( 20189 , 'ECE' , 205 , 2 , '2017-06-16 ' );
```

```
insert into registers values ( 20190 , 'CSE' , 104 , 1 , '2017-06-15' );
insert into registers values ( 20190 , 'ME' , 101 , 2 , '2017-06-15' );
```

```
insert into registers values ( 20191 , 'CSE' , 108 , 1 , '2017-06-17 ' );
insert into registers values ( 20191 , 'ME' , 108 , 2 , '2017-06-17 ' );
```

```
insert into registers values ( 20192 , 'CSE' , 303 , 1 , '2017-06-15' );
insert into registers values ( 20192 , 'IT' , 303 , 2 , '2017-06-15' );
```

```
insert into registers values ( 20193 , 'IT' , 301 , 1 , '2017-06-17' );
insert into registers values ( 20193 , 'IT' , 303 , 2 , '2017-06-17' );
```

```
insert into registers values ( 20194 , 'IT' , 303 , 1 , '2017-06-15' );
insert into registers values ( 20194 , 'EE' , 206 , 2 , '2017-06-15' );
```

```
// changes in verification_center
Alter table verification_center add center_id character(3);
ALTER TABLE ONLY verification_center
ADD CONSTRAINT verification_center_pid_fkey FOREIGN KEY (center_id) REFERENCES
institute( INST_ID) ON DELETE CASCADE ON UPDATE CASCADE;
```

```
// entries into choicest -21
insert into choicest values( 20171 , 'ME' , 101 );
insert into choicest values ( 20172 , 'ME' , 102 );
insert into choicest values( 20173 , 'ME' , 104 );
insert into choicest values( 20174 , 'CSE' , 304 );
insert into choicest values ( 20175 , 'ME' , 103 );
insert into choicest values ( 20176 , 'IT' , 301 );
insert into choicest values( 20177 , 'CSE', 301);
insert into choicest values( 20178 , 'IT', 301);
insert into choicest values( 20179 , 'CSE', 301);
insert into choicest values( 20180 , 'ME', 201);
insert into choicest values( 20181 , 'EE', 102);
insert into choicest values( 20182 , 'EE', 204);
insert into choicest values( 20183 , 'IT', 303);
insert into choicest values( 20184 , 'ECE', 109);
insert into choicest values( 20185 , 'EE', 202);
insert into choicest values( 20186 , 'ME', 107);
insert into choicest values( 20187 , 'CSE', 107);
insert into choicest values( 20188 , 'ME', 104);
insert into choicest values( 20189 , 'ECE', 205);
insert into choicest values( 20190 , 'ME', 101);
insert into choicest values( 20191 , 'ME', 108);
```

```
// entries into admitted
```

```
insert into admitted values( '2017-09-19 ' , 20171 , 'ME' , 101 );
```

```

insert into admitted values ('2017-09-19 ' , 20172 , 'ME' , 102 );
insert into admitted values( '2017-09-20 ' , 20173 , 'ME' , 104 );
insert into admitted values( '2017-09-25 ' , 20174 , 'CSE' , 304 );
insert into admitted values ( '2017-09-05 ' , 20175 , 'ME' , 103 );
insert into admitted values ( '2017-09-09 ' , 20176 , 'IT' , 301 );
insert into admitted values('2017-09-13' , 20177 , 'CSE', 301);
insert into admitted values( '2017-09-22 ' , 20178 , 'IT', 301);
insert into admitted values( '2017-09-07 ' , 20179 , 'CSE', 301);
insert into admitted values( '2017-09-28 ' , 20180 , 'ME', 201);
insert into admitted values( '2017-09-12 ' , 20181 , 'EE', 102);
insert into admitted values( '2017-09-15 ' , 20182 , 'EE', 204);
insert into admitted values( '2017-09-15 ' , 20183 , 'IT', 303);
insert into admitted values( '2017-09-03 ' , 20184 , 'ECE', 109);
insert into admitted values( '2017-09-18 ' , 20185 , 'EE', 202);
insert into admitted values( '2017-09-03 ',20186 , 'ME', 107);
insert into admitted values( '2017-09-03 ',20187 , 'CSE', 107);
insert into admitted values( '2017-09-03 ',20188 , 'ME', 104);

```

```

drop table verification_center;

```

```

create table verification_center
(
center_id char(3) REFERENCES INSTITUTE(INST_Id)
ON DELETE CASCADE ON UPDATE CASCADE,
incharge varchar(20)
);

```

```

//inserting into verification_center values

```

```

insert into verification_center values(101,'J.P.KELKAR');
insert into verification_center values(203,'GANESH P GAITONDE');
insert into verification_center values(104,'S.P.MISHRA');
insert into verification_center values(305,'K.M.SHARMA');
insert into verification_center values(110,'R.L.SHAH');
insert into verification_center values(202,'S.T.THAKKAR');
insert into verification_center values(102,'A..S.KEJRIWAL');
insert into verification_center values(110,'R.L.SHAH');
insert into verification_center values(206,'G.J.GUPTA');

```

```

insert into verification_center values(302,'H.R.KAMALNATH');
insert into verification_center values(103,'K.T.MUKHERJI');
insert into verification_center values(204,'N.T.RAMARAO');
insert into verification_center values(109,'P.A.KALANIDHI');
insert into verification_center values(201,'A.B.SHETTY');
insert into verification_center values(304,'K.L.RAHUL');
insert into verification_center values(106,'SUNNY PRAKASH');

```

## \\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 choiceset) 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 choiceset  
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;

```

//change\*\*\*

```

INSERT INTO students VALUES (20195, 'ANAND' , 'MISHRA' , 155 , 'TELANGANA' ,
'WARANGAL' , 'M' );
INSERT INTO students VALUES (20196, 'BHAVANA' , 'KURRA' , 163 , 'MADHYA
PRADESH' , 'SAGAR' , 'F' );

```

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;

```

\\change

Alter table verification\_center add primary key (center\_id);