Name: Swaranjana Nayak
Reg No. : 19BCE0977
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DBMS LAB CAT 2

Question 2

INSERTING AND CREATING TABLES

```
Run SQL Command Line

SQL*Plus: Release 11.2.0.2.0 Production on Fri Oct 16 10:09:20 2020

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SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> create table faculty(fac_id varchar2(10), name varchar2(10), salary number(6), address varcher2(20), Dno number(4), constraint fac_cat_pk primary key(fac_id));
create table faculty(fac_id varchar2(10), name varchar2(10), salary number(6), address varcher2(20), Dno number(4), constraint fac_cat_pk primary key(fac_id))
                                                                                *
ERROR at line 1:
ORA-00907: missing right parenthesis


SQL> create table faculty(fac_id varchar2(10), name varchar2(10), salary number(6), address varchar2(20), Dno number(4), constraint fac_cat_pk primary key(fac_id));

Table created.

SQL> create table department(dno number(4), dname varchar2(20), hod varchar2(10), constraint dept_cat_pk primary key(dno));
create table department(dno number(4), dname varchar2(20), hod varchar2(10), constraint dept_cat_pk primary key(dno))
             *
ERROR at line 1:
ORA-00955: name is already used by an existing object


SQL> create table department_cat(dno number(4), dname varchar2(20), hod varchar2(10), constraint dept_cat_pk primary key(dno));

Table created.

SQL> create table course(code varchar2(10), title varchar2(20), credit number(5), type varchar2(20), constraint cou_cat_pk primary key(code));

Table created.

SQL> create table teaches(fac_id varchar2(10), code varchar2(10), venue varchar2(15), slot varchar2(10), constraint fac_id_fk foreign key(fac_id) references faculty(fac_id)
, constraint c_cod_fk foreign key(code) references course(code));

Table created.

SQL>
```
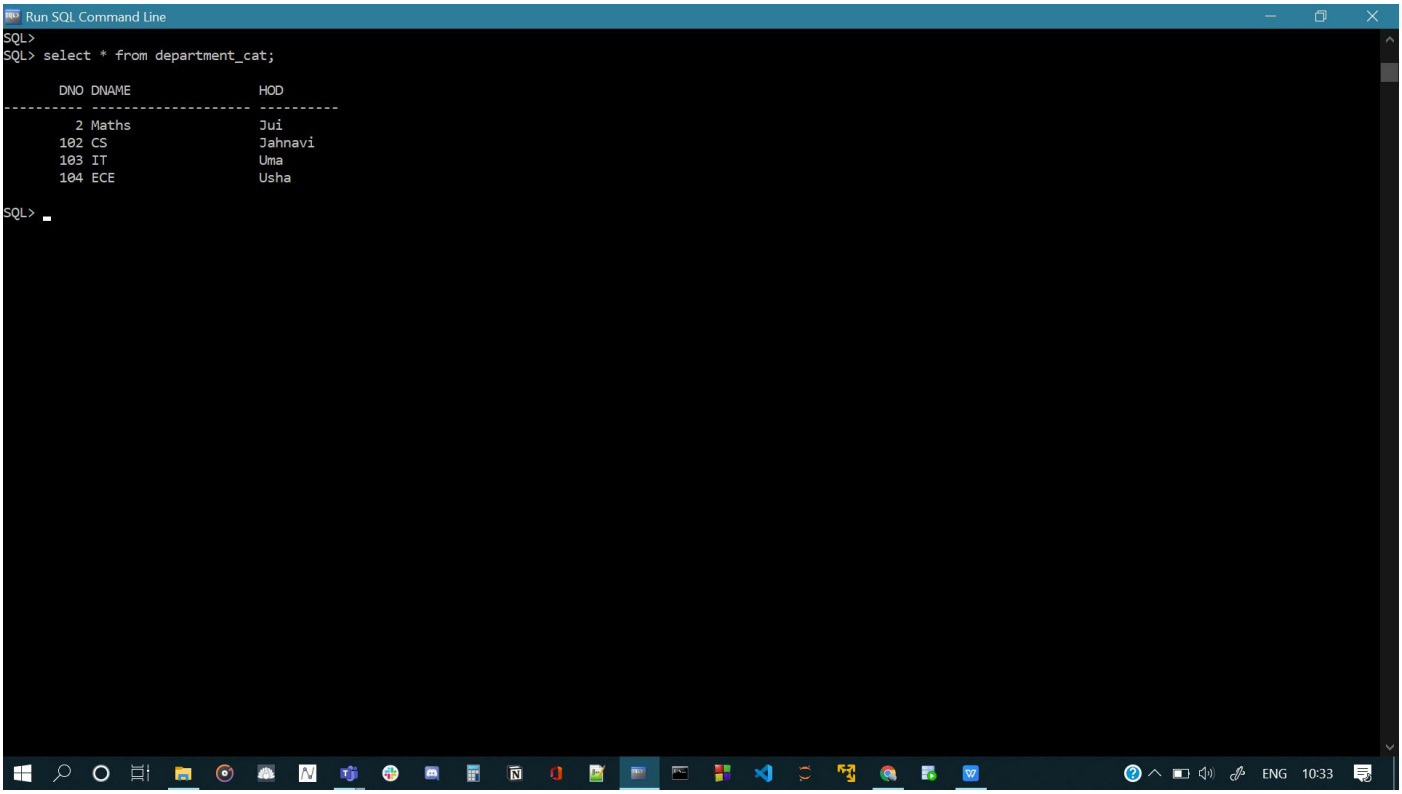
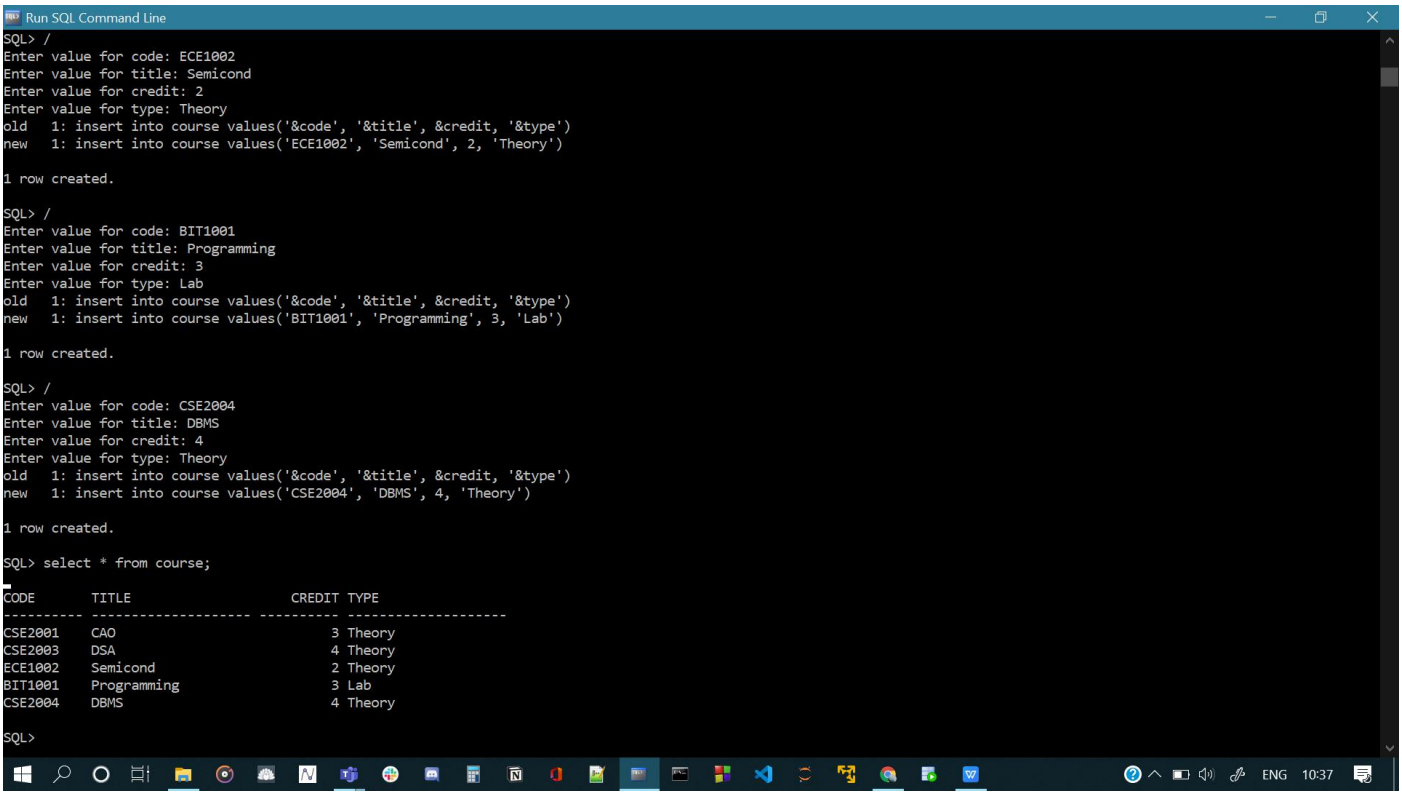

Faculty table

```
Run SQL Command Line
new   1: insert into faculty values('F567', 'Jui', 56000, 'Pune', 2)

1 row created.

SQL> select * from faculty;

FAC_ID     NAME           SALARY ADDRESS                   DNO
---------- ---------- ---------- -------------------- ----------
F123       Yash            12000 Vellore                     102
F128       Jahnavi         70000 Chennai                     102
F130       Uma             56000 Hyderabad                   103
F145       Usha            78000 Pune                        104
F111       Aarnav         123000 Mumbai                      105
F147       Krishna         18000 Vellore                     106
F345       Guin            12000 Nellore                       2
F567       Jui             56000 Pune                          2

8 rows selected.

SQL>
```

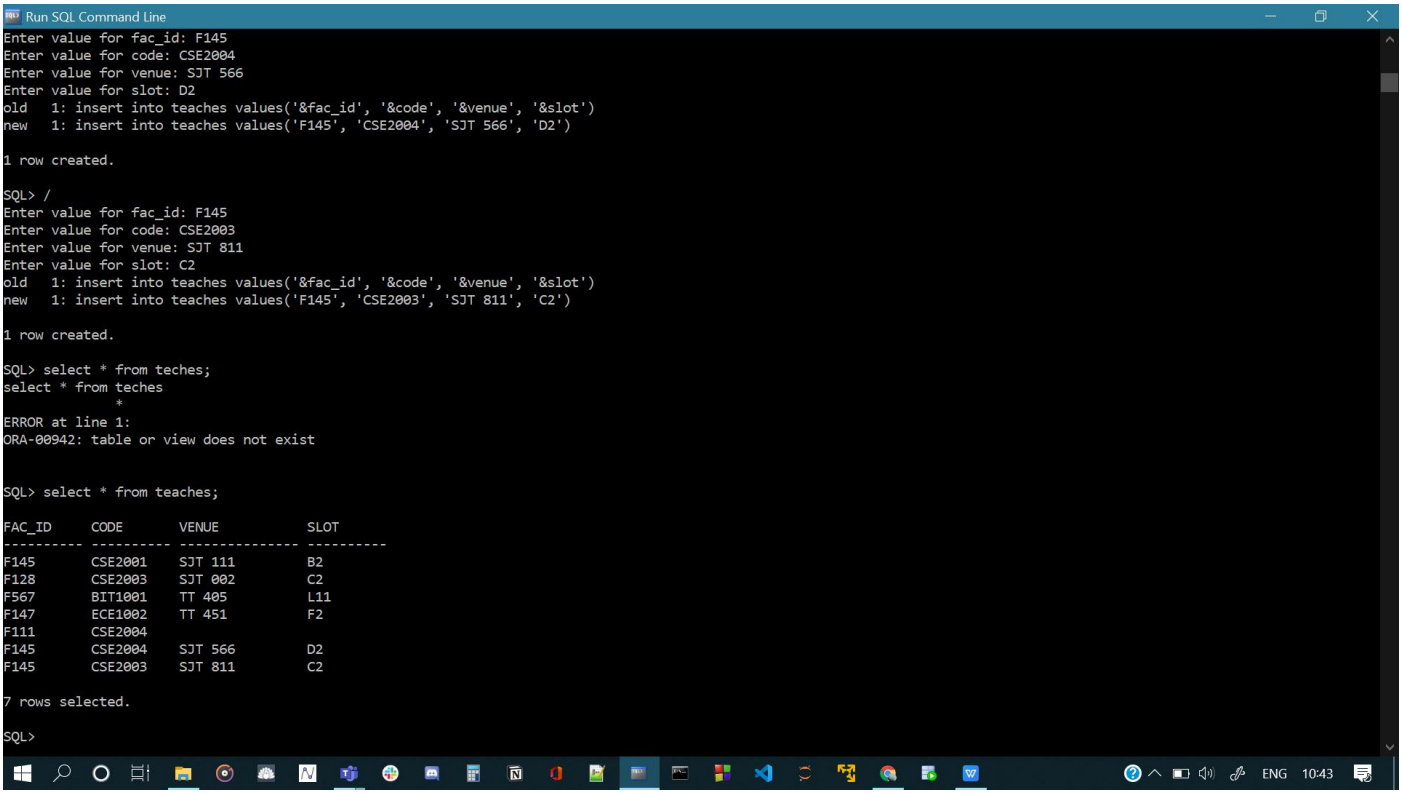
Department table



Course table

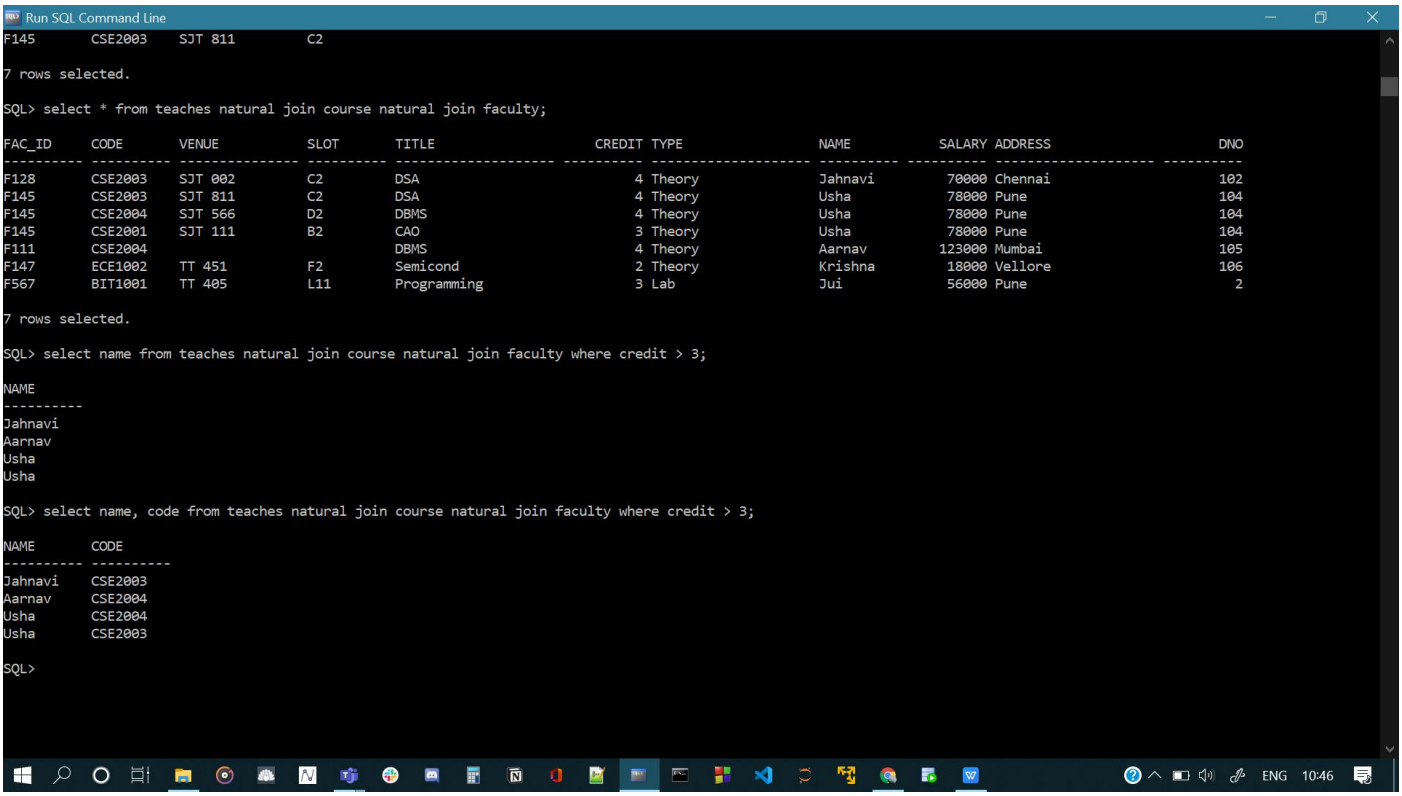


Teaches table

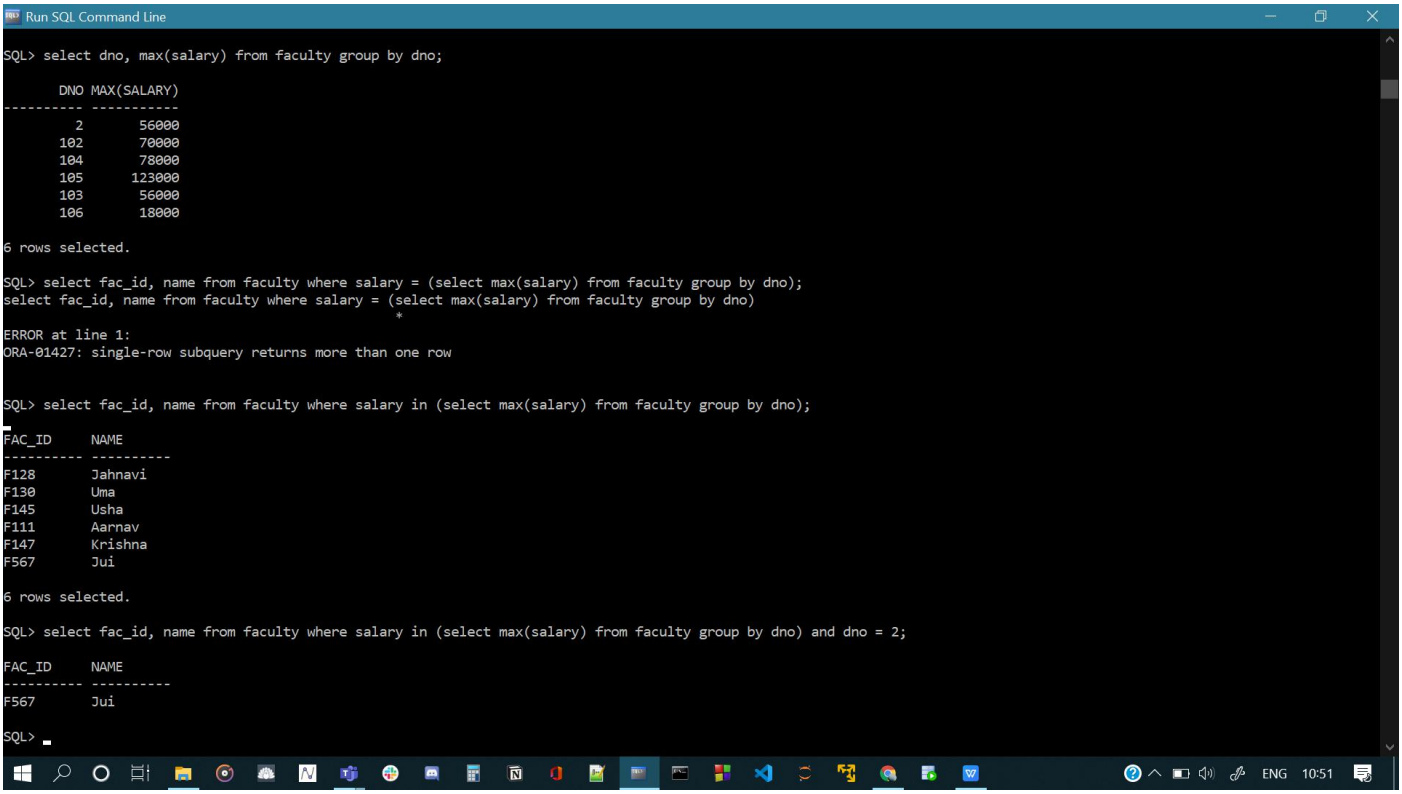


QUERIES

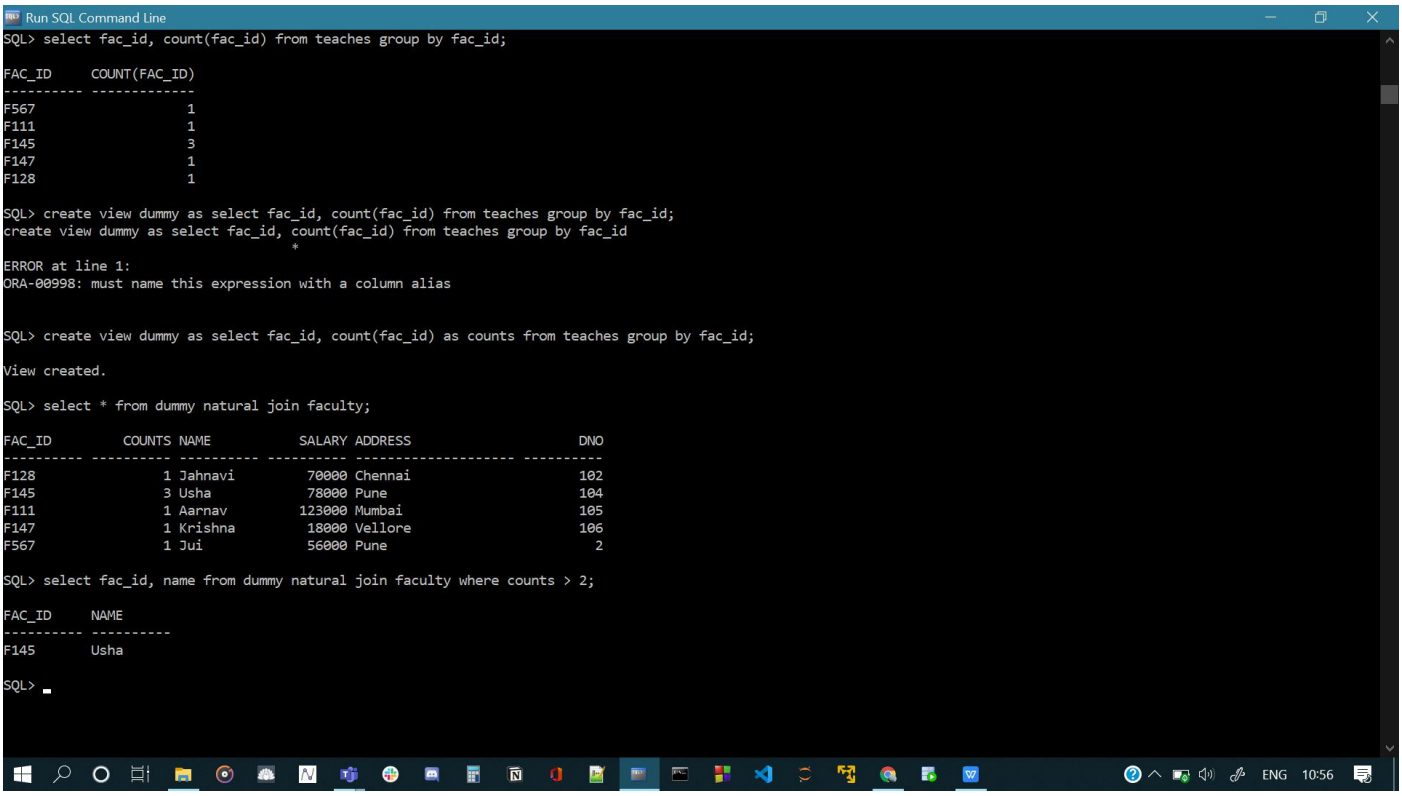
1. SQL> select name from teaches natural join course natural join faculty where credit > 3;



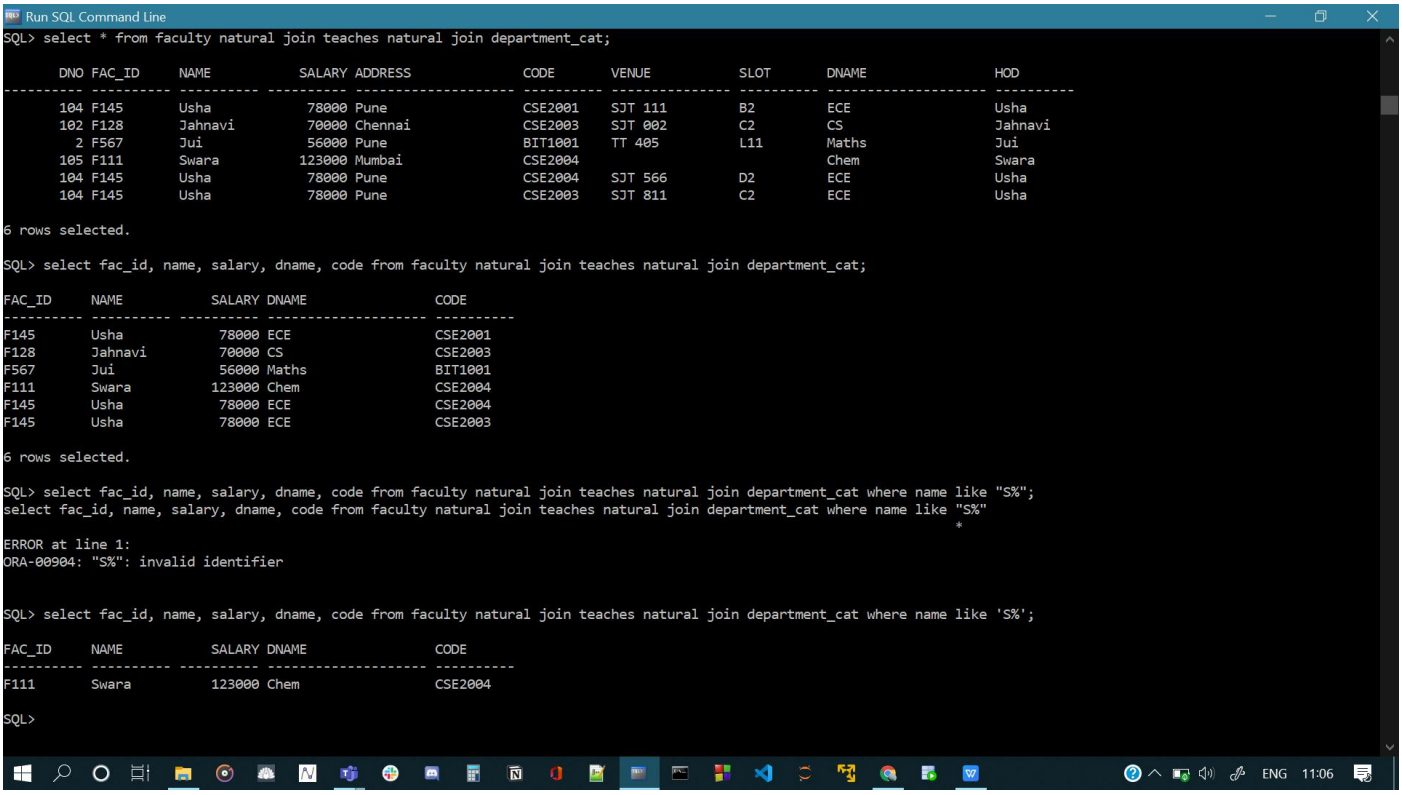
2. SQL> select fac_id, name from faculty where salary in (select max(salary) from faculty group by dno) and dno = 2;



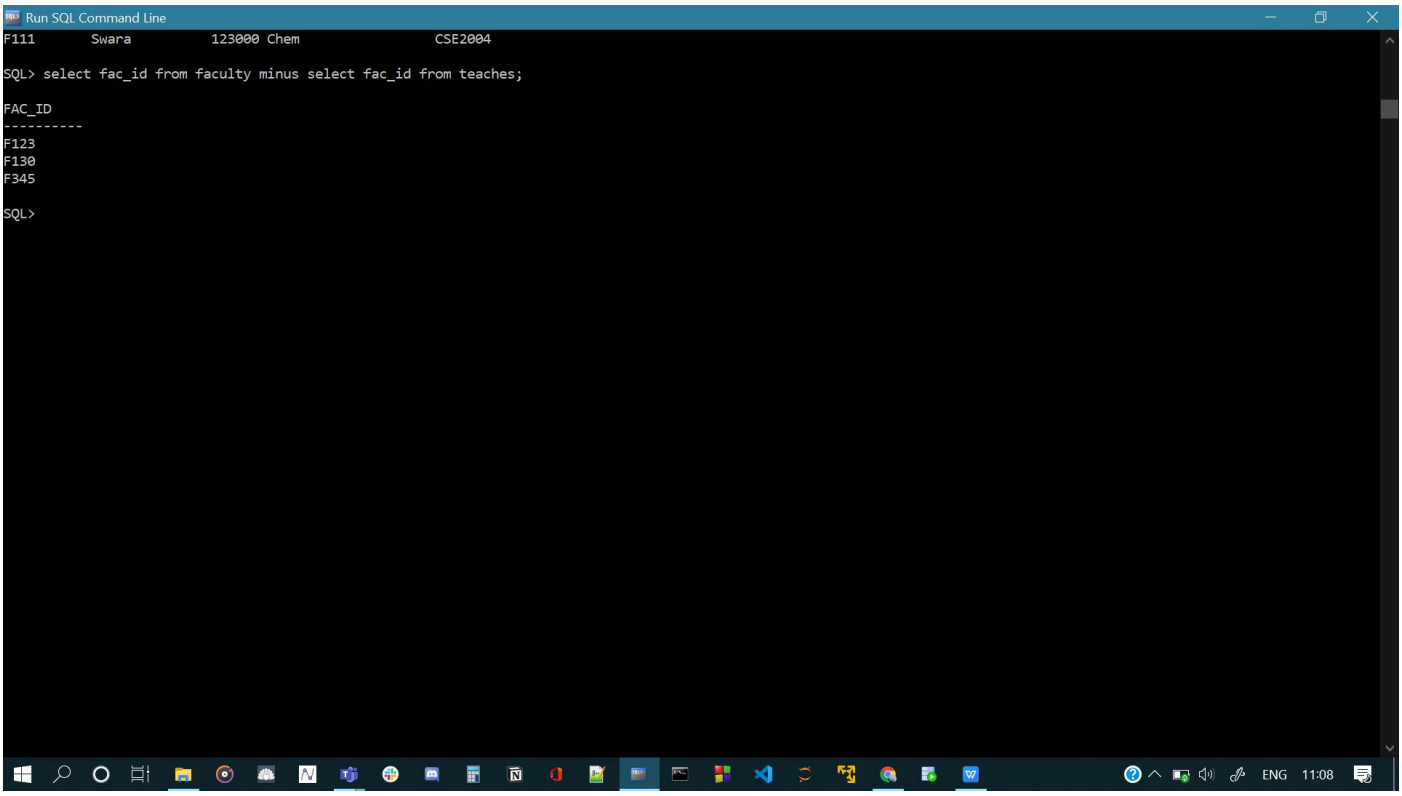
3. SQL> select fac_id, count(fac_id) from teaches group by fac_id;
create view dummy as select fac_id, count(fac_id) as counts from teaches group by fac_id;
select fac_id, name from dummy natural join faculty where counts > 2;



4. SQL> select fac_id, name, salary, dname, code from faculty natural join teaches natural join department_cat where name like 'S%';



5. SQL> select fac_id from faculty minus select fac_id from teaches;



6. create view fun as select dno, count(dno) as counts from faculty group by dno;
select dno from fun where counts = (select max(counts) from fun);