Practice Exercise I

1) Create a table name STUDENT with following structure.

```
1 CREATE TABLE STUDENT (
2 RegNo NUMBER(3),
3 Name VARCHAR2(15),
4 Gender CHAR(1),
5 DOB DATE,
6 MobileNo NUMBER(10),
7 City VARCHAR2(15)
8 );
```

2) Create a table name FACULTY with following structure.

Column

```
1 CREATE TABLE FACULTY (
2 FacNo VARCHAR2(4),
3 FacName VARCHAR2(15),
4 Gender CHAR(1),
5 DOB DATE,
6 DOJ DATE,
7 MobileNo NUMBER(10),
8 DeptNo VARCHAR2(4)
9 );
10
```

3) Create a table name DEPARTMENT with following structure.

```
1 CREATE TABLE DEPARTMENT (
2 DeptNo VARCHAR2(4),
3 DeptName VARCHAR2(15),
4 DeptHead VARCHAR2(4)
5 );
```

4) Create a table name COURSE with following structure.

```
CREATE TABLE COURSE (
CourseNo VARCHAR2(3),
CourseDesc VARCHAR2(14),
CourseType CHAR(1),
SemNo CHAR(1),
HallNo VARCHAR2(4),
FacNo VARCHAR2(4)

);
```

5) Modify the table FACULTY by adding a column name DeptNo of datatype VARCHAR(4)

```
1 ALTER TABLE FACULTY
2 ADD (DeptNo VARCHAR2(5));
3
```

6) Alter the table STUDENT with following structure.

Column Constraints

Name

PRIMARY

I RegNo KEY

2 MobileNo NOT NULL

```
1 ALTER TABLE STUDENT
2 MODIFY (RegNo NUMBER(3) PRIMARY KEY,
3 MobileNo NUMBER(10) NOT NULL);
4
```

7)Alter the table name FACULTY with following structure. The DeptNo in this table refers the DeptNo in the DEPARTMENT table. Column Constraints # Name FacNo PRIMARY IKEY Gender CHECK 2 'M' or 'F' ALTER TABLE FACULTY ADD CONSTRAINT FacNo_pk PRIMARY KEY (FacNo); ALTER TABLE FACULTY ADD CONSTRAINT Gender_ck CHECK (Gender IN ('M', 'F')); 8) After the FACULTY table is successfully created, test if you can add a constraint FOREIGN KEY to the DeptNo of this table ALTER TABLE FACULTY ADD CONSTRAINT DeptNo_fk FOREIGN KEY (DeptNo) REFERENCES DEPARTMENT(DeptNo); 9)Alterthetable name DEPARTMENT with following structure Column Constraint # Name DeptNo PRIMARY IKEY ALTER TABLE DEPARTMENT ADD CONSTRAINT DeptNo_pk PRIMARY KEY (DeptNo); 2

Constraint # Name CourseNo PRIMARY 1 KEY 2 SemNo I to 6 ALTER TABLE COURSE ADD CONSTRAINT CourseNo_pk PRIMARY KEY (CourseNo); ALTER TABLE COURSE ADD CONSTRAINT SemNo_ck CHECK (SemNo IN ('1', '2', '3', '4', '5', '6')); 4 Practice Questions: II. Populate all the five tables with your own data INSERT INTO STUDENT(REGNO, NAME, GENDER, DOB, MOBILENO, CITY) VALUES(192372006, 'JESWANTH', 'M', TO_DATE('2006-03-19', 'YYYY-MM-DD'), 9177545949, 'NELLORE'); INSERT INTO STUDENT(REGNO, NAME, GENDER, DOB, MOBILENO, CITY) VALUES(192365017, 'MITHUN', 'M', TO_DATE('2005-09-30', 'YYYY-MM-DD'),9989723628, 'KADAPA'); INSERT INTO DEPARTMENT (DEPTNO, DEPTNAME, DEPTHEAD) VALUES ('D001', 'COMPUTERSCIENCE', 'F001'); INSERT INTO FACULTY(FACNO, FACNAME, GENDER, DOB, DOJ, MOBILENO, DEPTNO) VALUES(002, 'RAMA', 'M', TO_DATE('1975-03-09', 'YYYY-MM-DD'), TO_DATE('2018-10-09', 'YYYY-MM-DD'),9177545947, 'D002') INSERT INTO COURSE(COURSENO, COURSEDESC, COURSETYPE, SEMNO, HALLNO, FACNO) VALUES ('CS7', 'CN', 'C', '1', '001', 'F001')

10) Alter the table name COURSE with following structure.

Column

12. Update the value of student name whose register number is '19232006'.

```
UPDATE STUDENT
SET NAME= 'JESWANTH'
WHERE REGNO = 192372006;
```

B.Deletetherecordinthetable FACULTY, who resigned her job.

```
DELETE FROM FACULTY
WHERE FACULTYNAME = 'SIVA';
```

4. Modify the date of birth for the faculty whose name is RAM; with a value '1983-05-01'.

```
UPDATE FACULTY
SET DOB = TO_DATE('1975-10-09','YYYYY-MM-DD')
WHERE FACULTYNAME = 'SIVA';
```

15. Remove all faculty who are having over 65 years.

```
DELETE FROM FACULTY
WHERE MONTHS_BETWEEN(SYSDATE , DOB)/12 > 65;
```

16. Viewall the records from the five tables.

```
SELECT * FROM STUDENT;

SELECT * FROM COURSE;

SELECT * FROM FACULTY;

SELECT * FROM DEPARTMENT;
```

REGNO	NAME	GENDER	DOB	MOBILENO	СІТҮ
192311098	HARI PRIYA	F	18-Apr-2005	9701970277	ANANTHAPURAM
192372006	JESWANTH	М	19-Mar-2006	9177545949	NELLORE
192311064	PRANEETHA	F	22-Jul-2006	9177545949	HYDERABAD
192365017	MITHUN	М	30-Sep-2005	9989723628	KADAPA

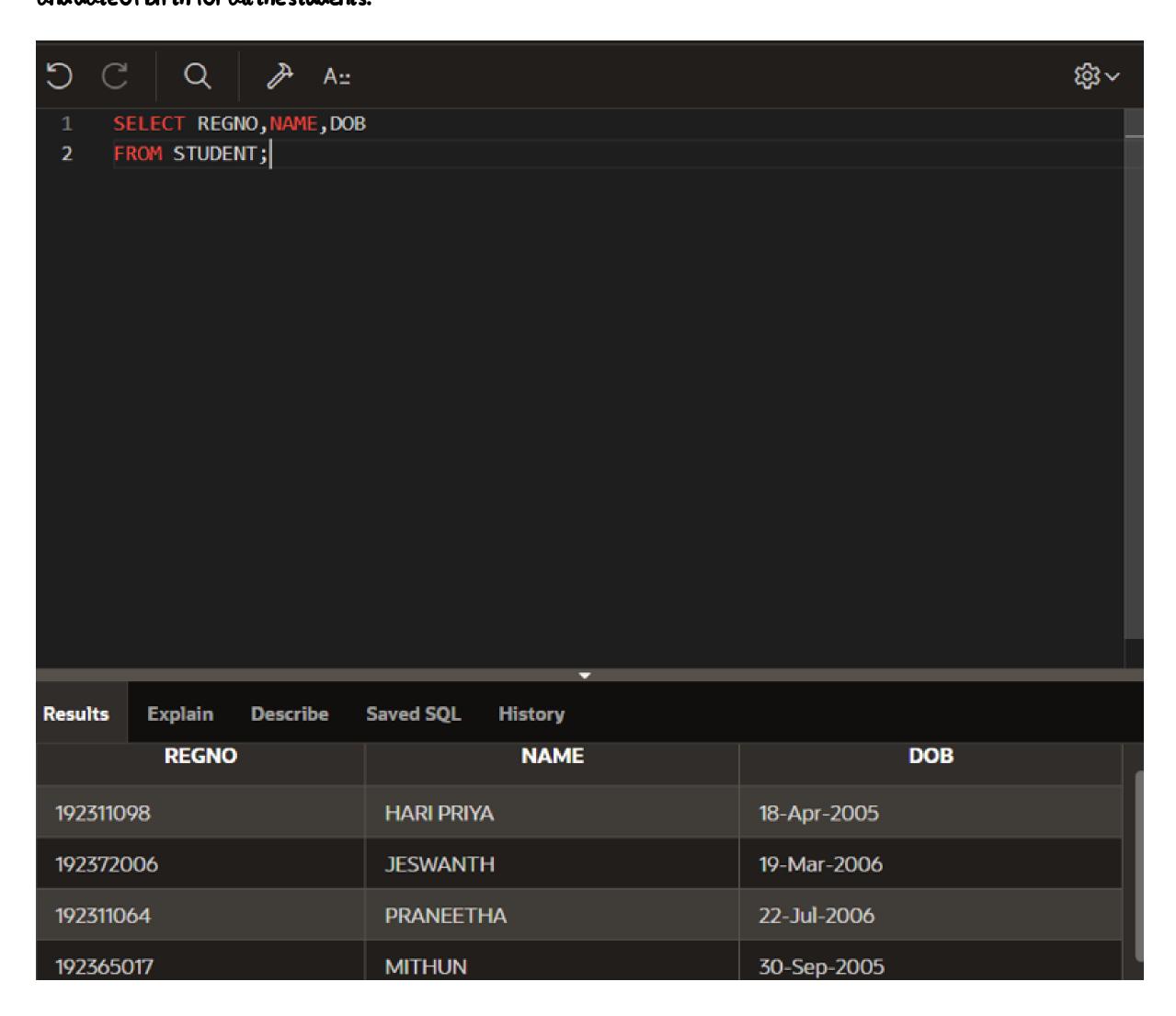
COURSENO	COURSEDESC	COURSETYPE	SEMNO	HALLNO	FACNO
CS6	CA	с	1	002	F002
CS7	CN	с	1	001	F001
FACNO FAC	CNAME GENDER	DOB	DOI	MOBILENO	DEPTNO

FACNO	FACNAME	GENDER	DOB	DOJ	MOBILENO	DEPTNO
2	RAMA	М	09-Mar-1975	09-Oct-2018	9177545947	D002
1	SIVA	М	09-Mar-1975	09-Oct-2018	9177545948	D001

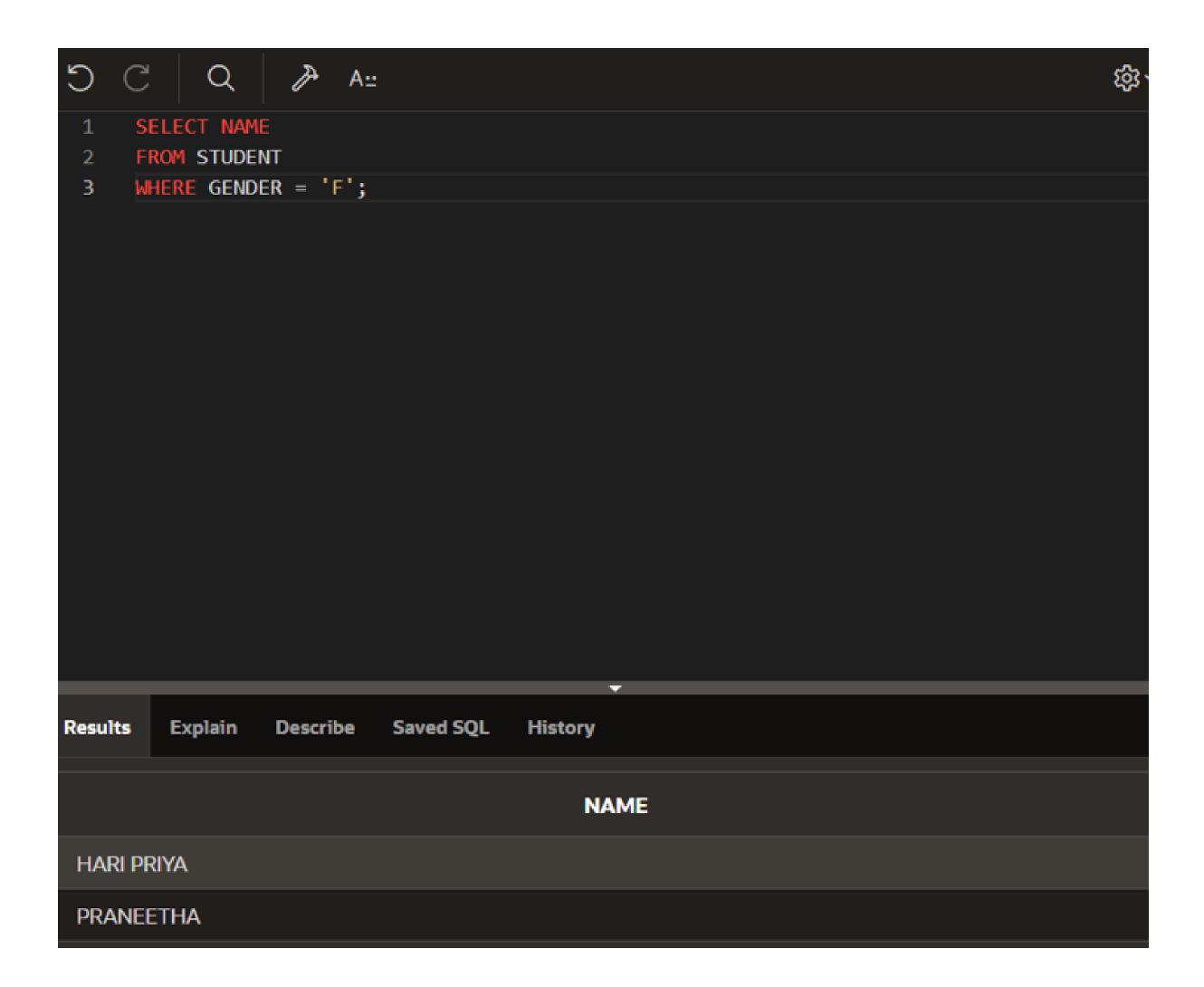
DEPTNO	DEPTNAME	DEPTHEAD
D001	COMPUTERSCIENCE	F001
D002	QUANTITATIVE	F002

WHERE Clause Questions::

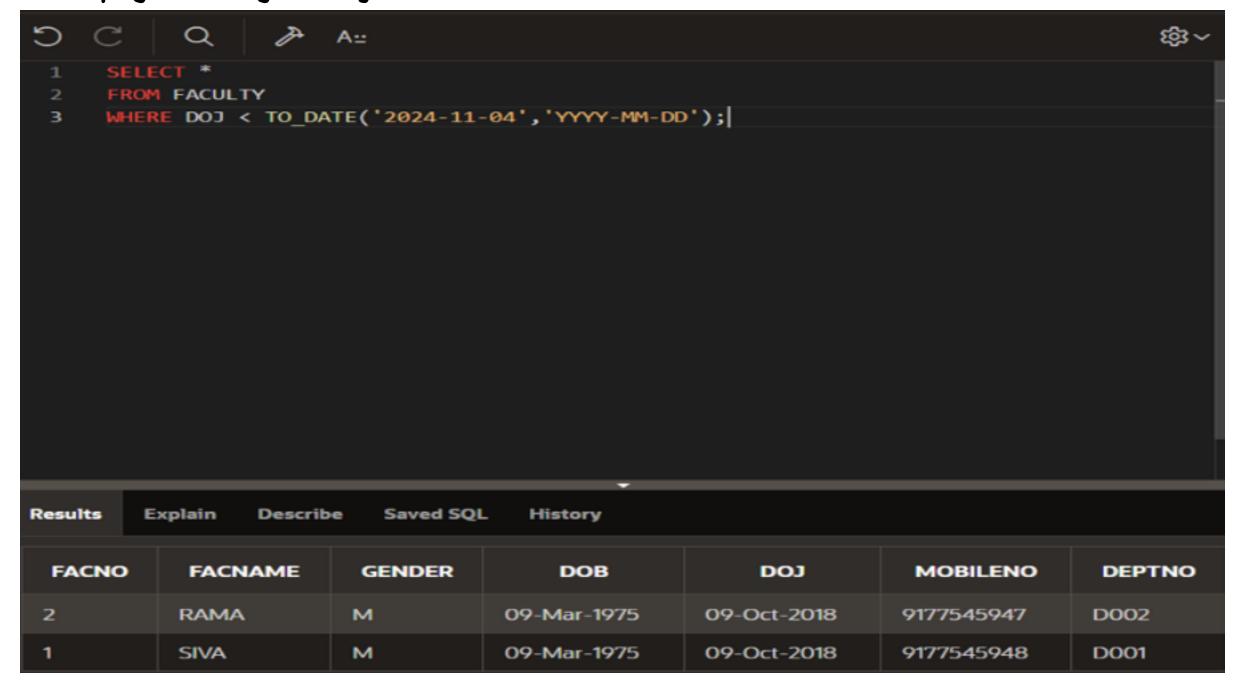
17. The student counsellor wanted to display the registration number, student name and date of birth for all the students.



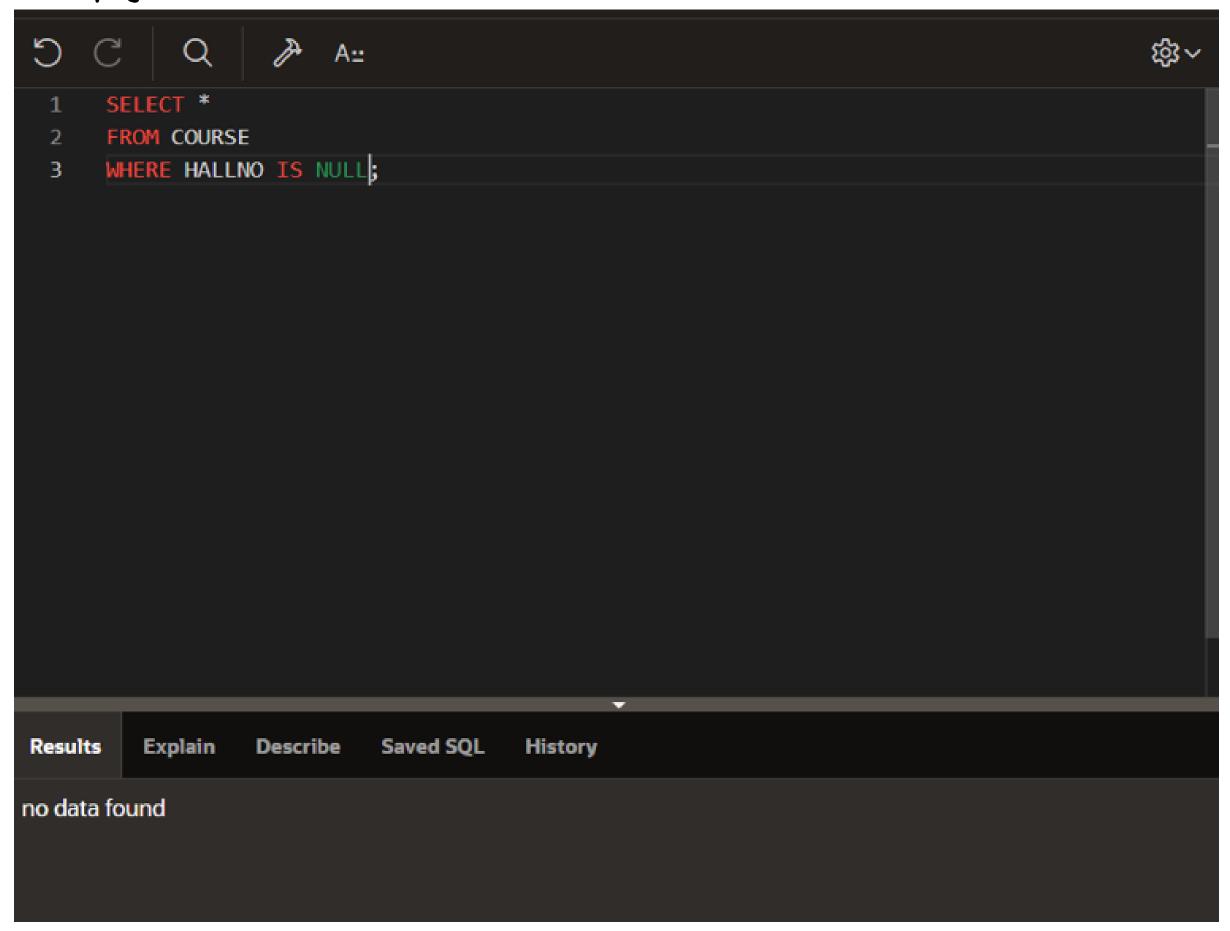
18. The controller of examinations wanted to list all the female students.



20. Display all faculty details joined before "November 2024".

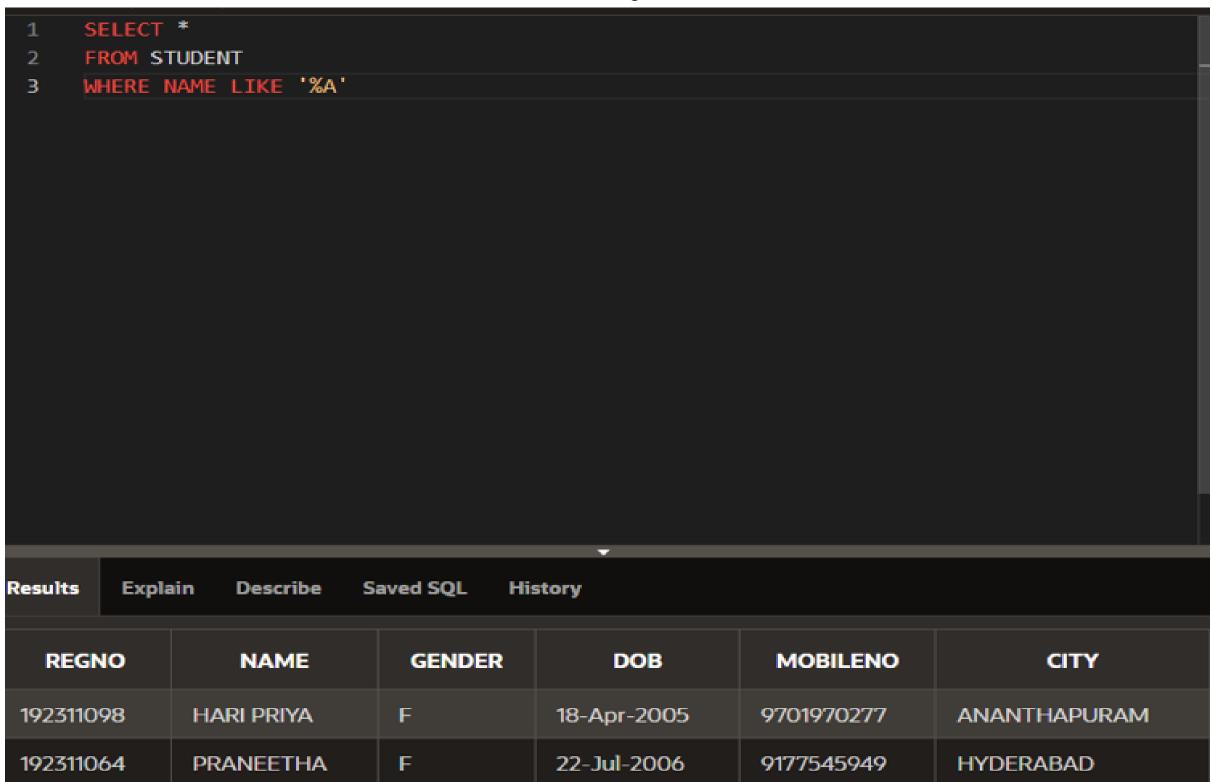


21. Display all the courses not allotted to halls

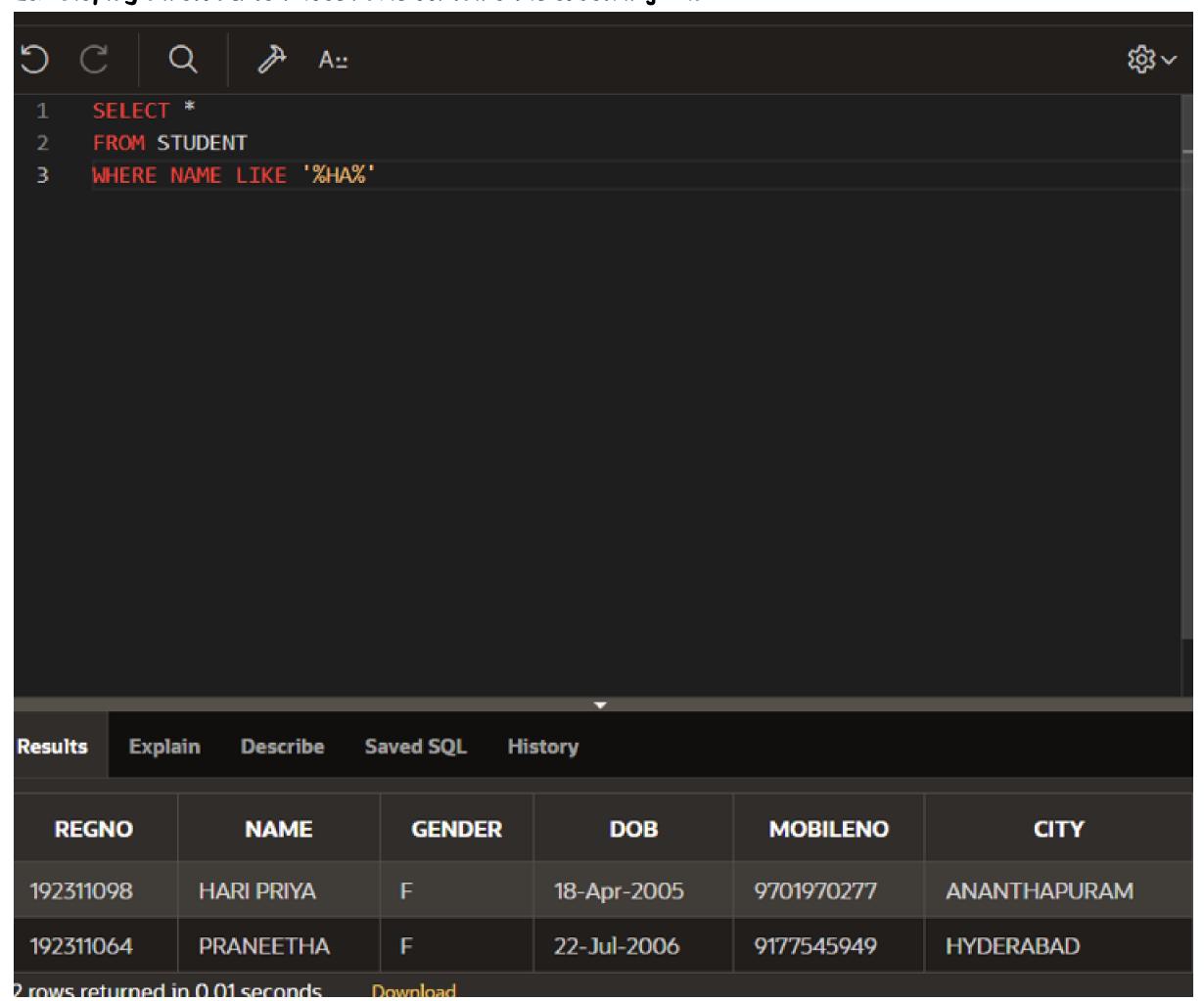


LIKE Clause Questions::

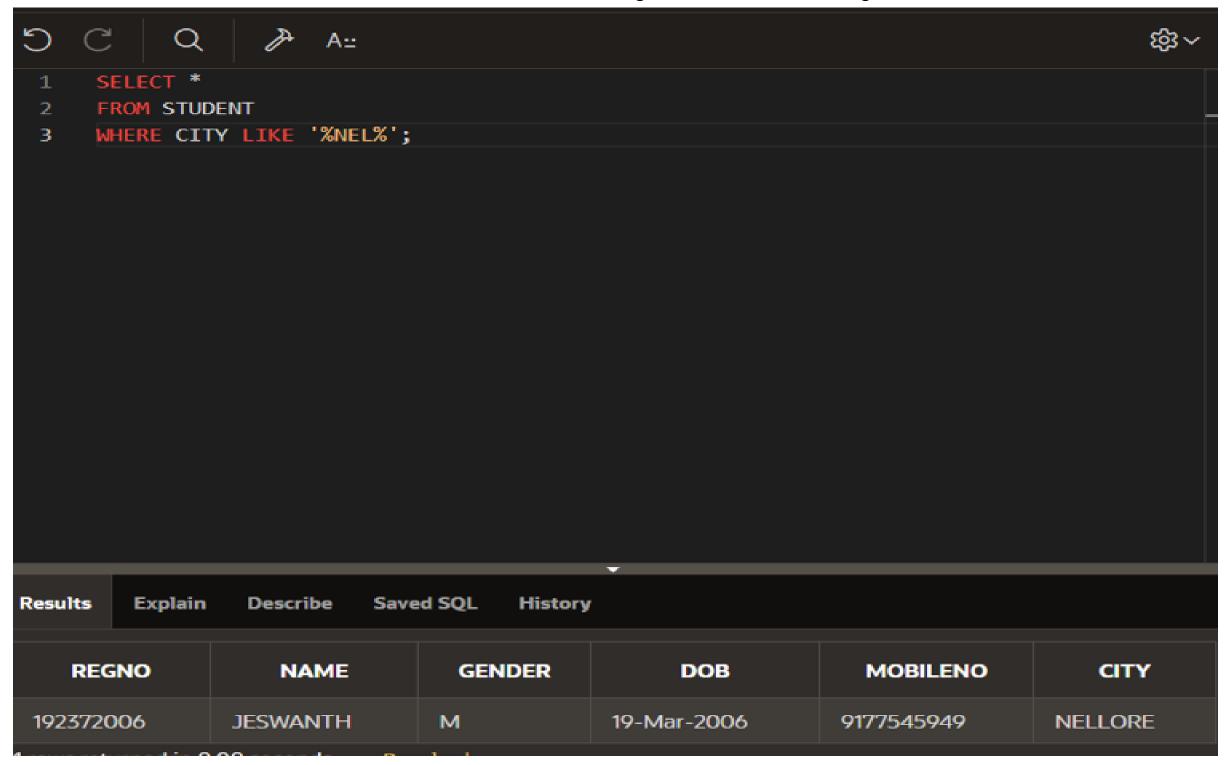
22. List the students whose name ends with the substring "a"



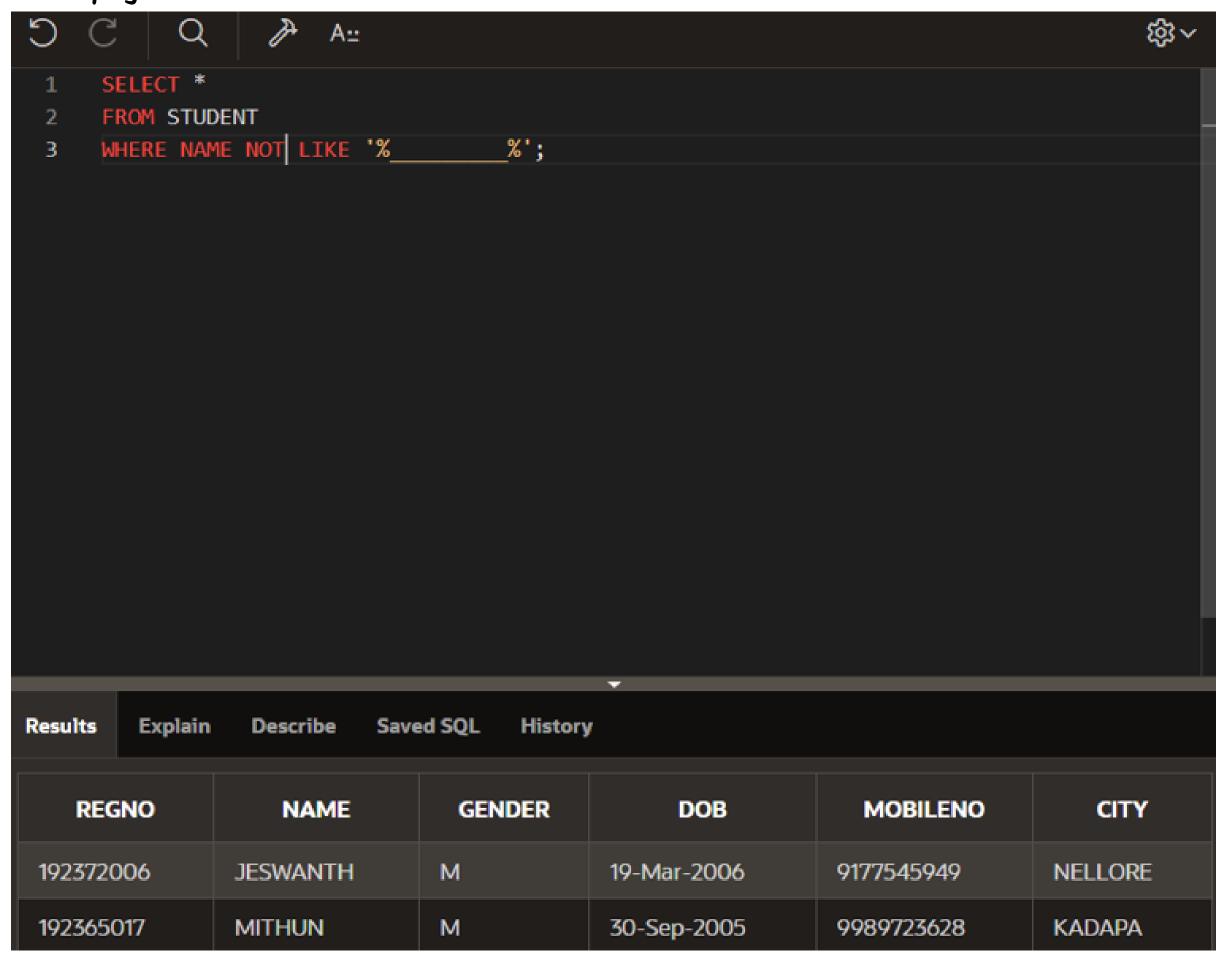
23. Display all students whose name contains the substring "Ha"



24. Find all the students who are located in cities having "NEL" as substring



25. Display the students whose names do not contain six letters.



26. Find all the students whose names contains "th"

