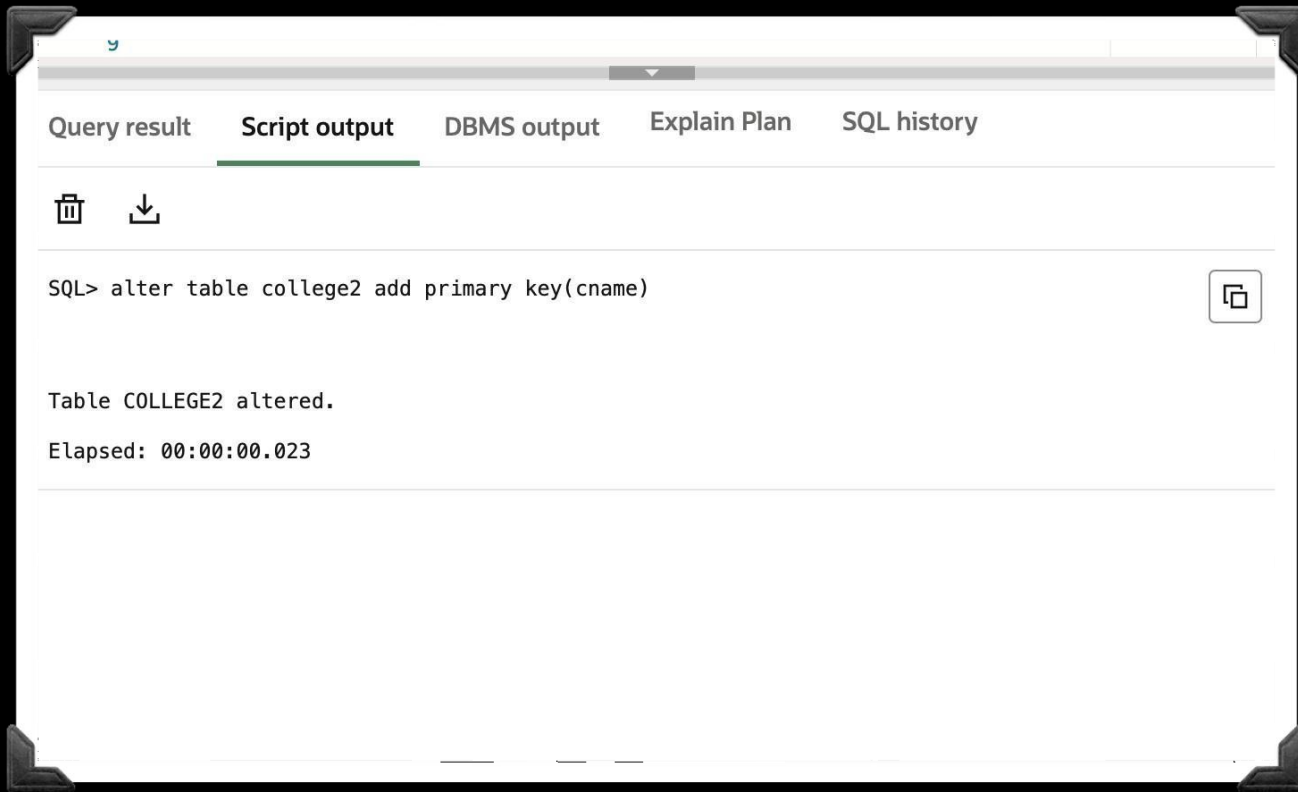


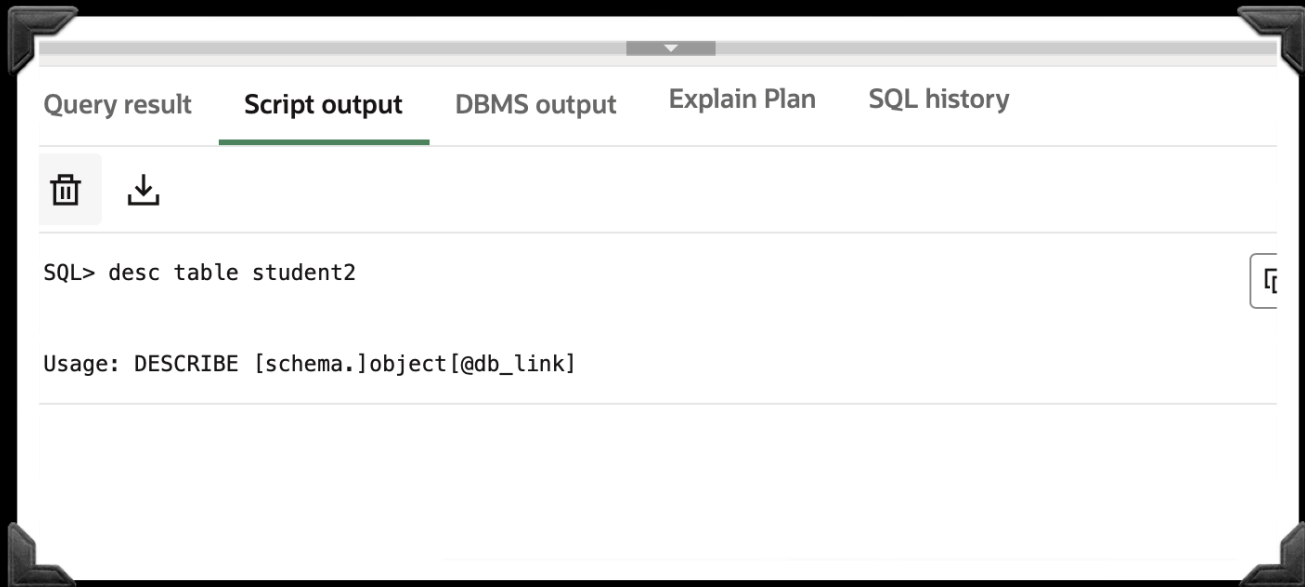
**Name:meenu parashar ; Roll No:37; University RollNO: 2415000969**

Q1-Add cname as primary key in college.

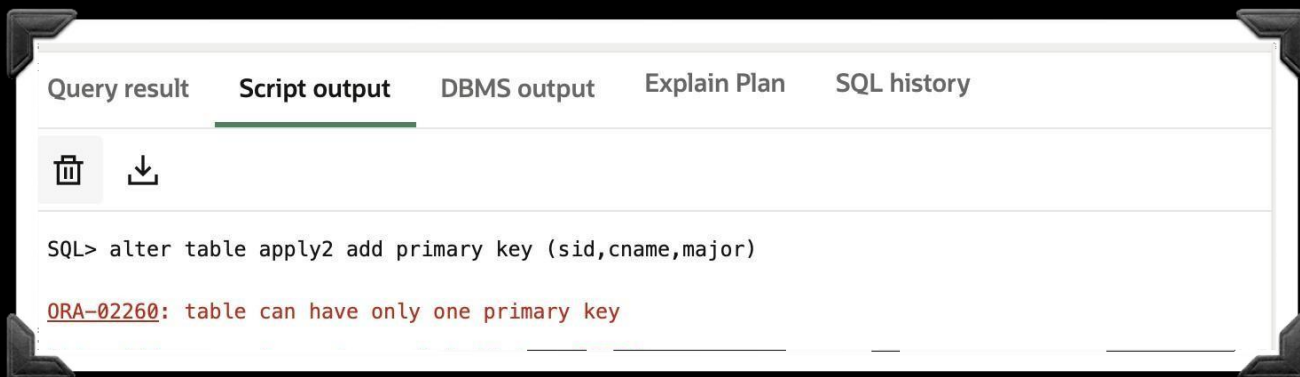
Ans:alter table college2 add primary key(cname);



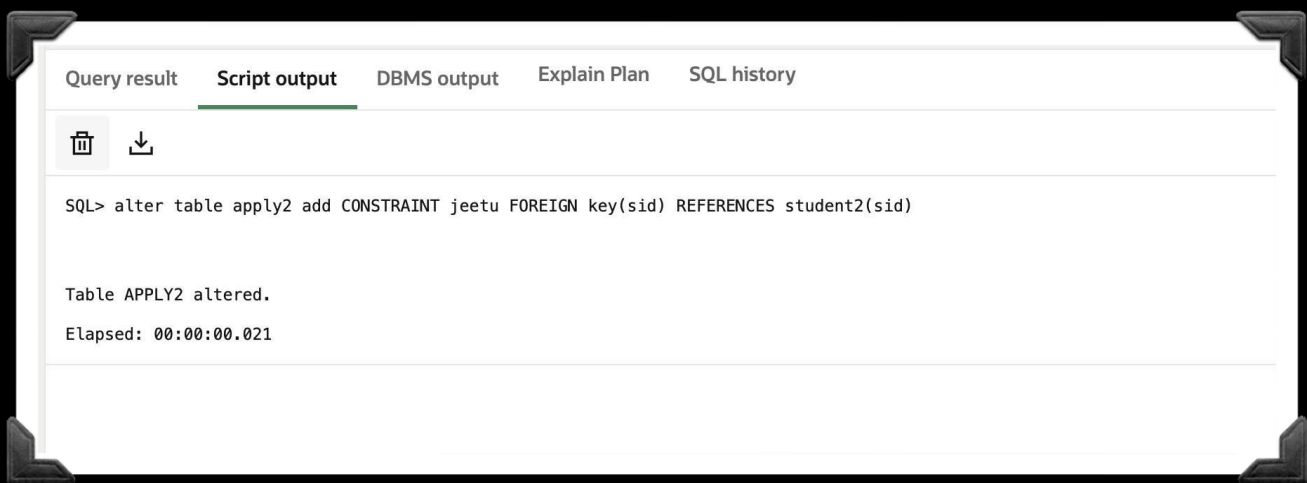
Q2- Add Sid as primary key in student.  
Ans:alter table student2 add primary key(sid)



Q3-Add sid ,cname , major as primary key in apply .  
Ans:alter table apply2 add primary key (sid,cname,major)



Q4-make sid in apply foreign key referring table student and cname referring table college.  
Ans:alter table apply2 add CONSTRAINT jeetu FOREIGN key(sid) REFERENCES student2(sid);



The screenshot displays a database management tool interface with a dark theme. At the top, there are five tabs: "Query result", "Script output" (which is selected and underlined), "DBMS output", "Explain Plan", and "SQL history". Below the tabs, there are two icons: a trash can and a download arrow. The main area shows the execution of an SQL command: "SQL> alter table apply2 add CONSTRAINT jeetu FOREIGN key(sid) REFERENCES student2(sid)". Below the command, the response "Table APPLY2 altered." is displayed, followed by the execution time "Elapsed: 00:00:00.021".

Query result   **Script output**   DBMS output   Explain Plan   SQL history

🗑️   ⬇️

SQL> alter table apply2 add CONSTRAINT jeetu FOREIGN key(sid) REFERENCES student2(sid)

Table APPLY2 altered.

Elapsed: 00:00:00.021

Q5-increase data type size of major from 20 to 25.  
Ans:ALTER TABLE Apply2 MODIFY major VARCHAR(25)

Elapsed: 00:00:00.021

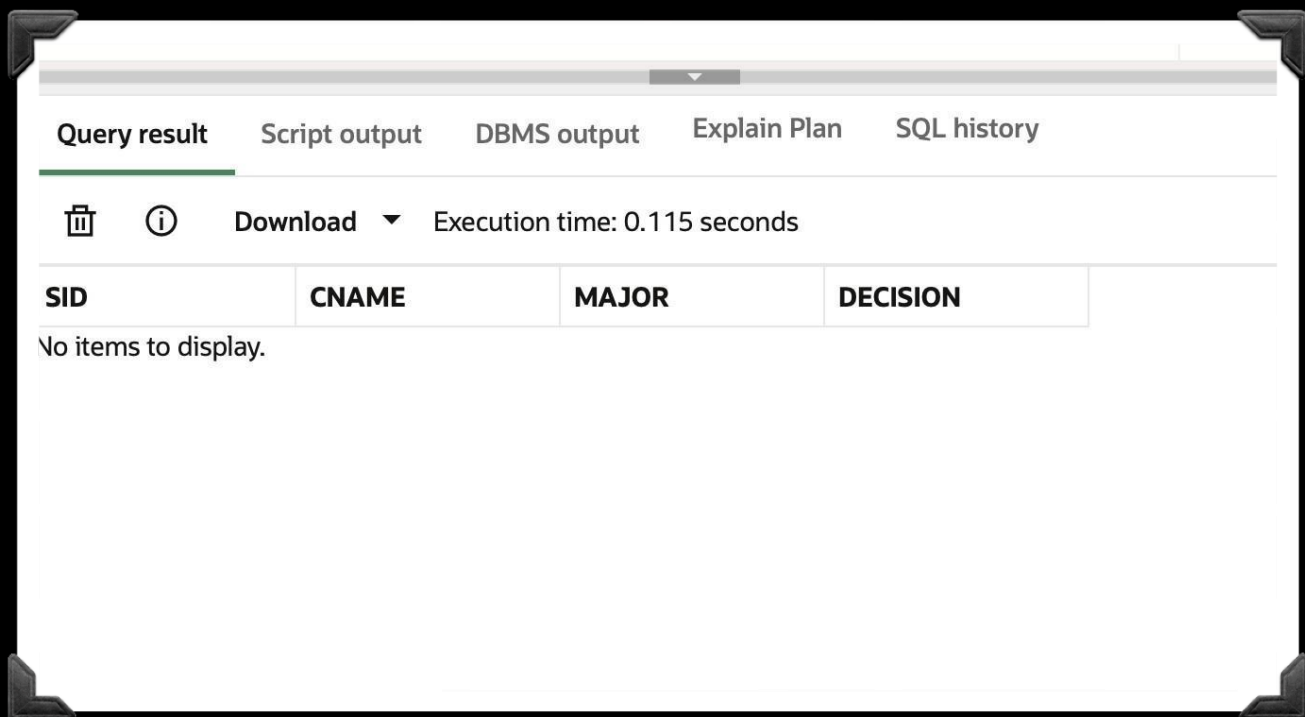
SQL> ALTER TABLE Apply2 MODIFY major VARCHAR(25)

Table APPLY2 altered.

Elapsed: 00:00:00.011

Q6-add new column decision in the apply table keeping a constraint of not null for this column with the data type varchar 2(3).

Ans:ALTER TABLE Apply2 ADD decision VARCHAR2(3) NOT NULL;



| Query result         |  |  |  |  |
|----------------------|--|--|--|--|
| Script output        |  |  |  |  |
| DBMS output          |  |  |  |  |
| Explain Plan         |  |  |  |  |
| SQL history          |  |  |  |  |
| No items to display. |  |  |  |  |

Q7-change the data type of decision in apply to char(1).  
Ans:ALTER TABLE APPLY2 modify decision char(1);

```
SQL> ALTER TABLE APPLY2 modify decision char(1)
```

Table APPLY2 altered.

Elapsed: 00:00:00.005

---

Q8- drop foreign key on column name cname from apply table .  
Ans:alter table apply2 drop FOREIGN key ;



Query result

Script output

DBMS output

Explain Plan

SQL history



SQL> alter table apply2 drop FOREIGN key

ORA-02000: missing COLUMN keyword



Q9.remove column size hs from the student table .  
Ans:ALTER TABLE Student2 DROP COLUMN sizeHS



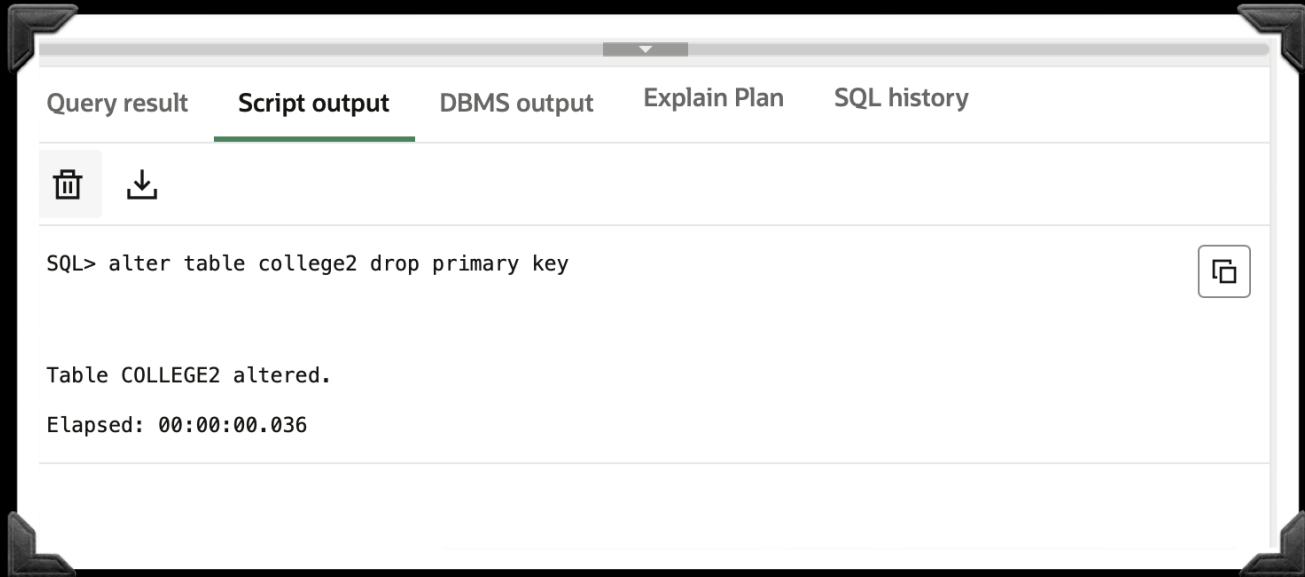
```
SQL> ALTER TABLE Student2 DROP COLUMN sizeHS
```



Table STUDENT2 altered.

Elapsed: 00:00:00.022

Q10.drop primary key from the college .  
Ans:alter table college2 drop primary key;



Q11.make cname, major unique pairwise such as Stanford cs ,Stanford ee.

Ans:ALTER TABLE Apply2 ADD CONSTRAINT uq\_cname\_major UNIQUE (cname, major);

```
SQL> ALTER TABLE Apply2 ADD CONSTRAINT uq_cname_major UNIQUE (cname, major)
```

ORA-02261: The unique or primary key already exists in the table.

Q12.Add cname as foreign key in apply table referring table college using on delete cascade .  
Ans:ALTER TABLE Apply2 ADD CONSTRAINT fk\_apply\_college FOREIGN KEY (cname)  
REFERENCES College(cname)ON DELETE CASCADE;

```
QL> ALTER TABLE Apply2
      ADD CONSTRAINT fk_apply_college
      FOREIGN KEY (cname) REFERENCES College(cname)
      ON DELETE CASCADE
```

RA-02270: no matching unique or primary key for this column-list

Q13.Modify foreign key on sid in apply table to foreign key on delete set null.  
Ans:ALTER TABLE Apply2 ADD CONSTRAINT fl\_apply\_student FOREIGN KEY  
(sID) REFERENCES Student2(sID) ON DELETE SET NULL;

```
SQL> ALTER TABLE Apply2
      ADD CONSTRAINT fk_apply_student
      FOREIGN KEY (sID) REFERENCES Student2(sID)
      ON DELETE SET NULL
```

ORA-02275: such a referential constraint already exists in the table

Q14.rename column enrollment to enroll in college table .

Ans:ALTER TABLE College2 RENAME COLUMN enrollment TO enroll;

```
SQL> ALTER TABLE College2 RENAME COLUMN enrollment TO enroll
```

Table COLLEGE2 altered.

Elapsed: 00:00:00.014