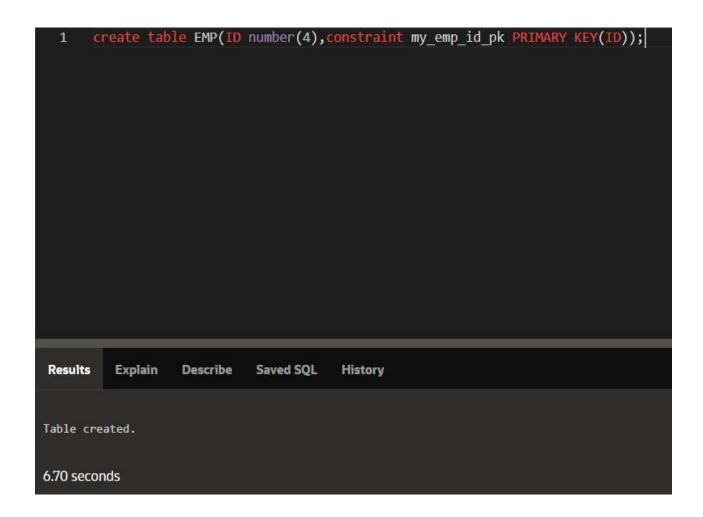# EXERCISE 3
INCLUDING CONSTRAINTS

1.Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my_emp_id_pk.

```
1    create table EMP(ID number(4),constraint my_emp_id_pk PRIMARY KEY(ID));
```

Results   Explain   Describe   Saved SQL   History

Table created.

6.70 seconds

2.Create a PRIMARY KEY constraint to the DEPT table using the ID column. The constraint should be named at creation. Name the constraint my_dept_id_pk.

```
2    create table DEPT(ID number(4),constraint my_dept_id_pk PRIMARY KEY(ID));
```

Results   Explain   Describe   Saved SQL   History

Table created.

0.05 seconds

3.Add a column DEPT_ID to the EMP table. Add a foreign key reference on the EMP table that ensures that the employee is not assigned to non-existent department. Name the constraint my_emp_dept_id_fk.

```
3   alter table EMP add(DEPT_ID number(4),constraint my_emp_dept_id_fk foreign key(DEPT_ID) references EMP(ID));
```

Results   Explain   Describe   Saved SQL   History

Table altered.

0.03 seconds

4.Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.

```
4    alter table EMP add(COMMISSION number(2,2),constraint emp_com check(COMMISSION>0));
```

Results   Explain   Describe   Saved SQL   History

Table altered.

0.03 seconds