

### 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
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Table altered.

0.03 seconds