

**Example:**

Assume table TEST1 with the following structure

```
CREATE TABLE test1 ( pk number PRIMARY KEY, fk number, col1 number, col2 number,
CONSTRAINT fk_constraint FOREIGN KEY(fk) REFERENCES test1, CONSTRAINT ck1 CHECK
(pk>0 and col1>0), CONSTRAINT ck2 CHECK (col2>0);
```

An error is returned for the following statements

```
ALTER TABLE test1 DROP (pk);
```

```
ALTER TABLE test1 DROP (col1);
```

The above statement can be written with **CASCADE CONSTRAINT**

```
ALTER TABLE test1 DROP(pk) CASCADE CONSTRAINTS;
```

(OR)

```
ALTER TABLE test1 DROP(pk, fk, col1) CASCADE CONSTRAINTS;
```

**VIEWING CONSTRAINTS**

Query the **USER\_CONSTRAINTS** table to view all the constraints definition and names.

**Example:**

```
SELECT constraint_name, constraint_type, search_condition FROM user_constraints
WHERE table_name='employees';
```

**Viewing the columns associated with constraints**

```
SELECT constraint_name, constraint_type, FROM user_cons_columns
WHERE table_name='employees';
```

**Find the Solution for the following:**

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**.

```
ALTER TABLE EMP
```

```
ADD CONSTRAINT my-emp-id-pk PRIMARY KEY (ID);
```

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.

~~ALTER TABLE DEPT~~

~~ADD CONSTRAINT my-dept-id-pk - PRIMARY KEY (ID);~~

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 nonexistent department. Name the constraint my\_emp\_dept\_id\_fk.

~~ALTER TABLE EMP ADD DEPT\_ID NUMBER(6);~~

~~ALTER TABLE EMP ADD CONSTRAINT my-emp-dept-id-fk  
FOREIGN KEY (DEPT-ID) REFERENCES DEPT (ID);~~

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.

~~ALTER TABLE EMP~~

~~ADD COMMISSION NUMBER(2,2);~~

~~ALTER TABLE EMP~~

~~ADD CONSTRAINT emp-commission\_ck CHECK (COMMISSION > 0);~~

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	