

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 Constraints 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\_emp\_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;~~  
~~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	