**Assignment 0**

**SUPPLIER(SID, SNAME, CITY)**

**PART(PID, PNAME, COLOR)**

**CATALOG(SID, PID, COST)**

**1. Create the above tables with necessary constraints.**

create table supplier (sid number(3) primary key,sanme varchar2(50) not null,city varchar2(50) not null)

create table part(pid number(3) primary key,pname varchar2(50) not null, color varchar2(50) not null)

create table catalog (sid number(3),pid number(3),color varchar2(50),CONSTRAINT fk\_sid foreign key (sid) references supplier(sid),constraint fk\_pid foreign key (pid) references part(pid))

Table PART created.

Elapsed: 00:00:00.020

**2. Insert values in all the tables.**

INSERT ALL

INTO catalog (sid, pid, color) VALUES (101, 201, 'Red')

INTO catalog (sid, pid, color) VALUES (102, 202, 'Blue')

INTO catalog (sid, pid, color) VALUES (103, 203, 'Green')

INTO catalog (sid, pid, color) VALUES (104, 204, 'Yellow')

INTO catalog (sid, pid, color) VALUES (105, 205, 'Black')

INTO catalog (sid, pid, color) VALUES (106, 206, 'White')

INTO catalog (sid, pid, color) VALUES (107, 207, 'Orange')

INTO catalog (sid, pid, color) VALUES (108, 208, 'Purple')

INTO catalog (sid, pid, color) VALUES (109, 209, 'Pink')

INTO catalog (sid, pid, color) VALUES (110, 210, 'Gray')

select \* from dual

INSERT ALL

INTO part (pid, pname, color) VALUES (201, 'Part A', 'Red')

INTO part (pid, pname, color) VALUES (202, 'Part B', 'Blue')

INTO part (pid, pname, color) VALUES (203, 'Part C', 'Green')

INTO part (pid, pname, color) VALUES (204, 'Part D', 'Yellow')

INTO part (pid, pname, color) VALUES (205, 'Part E', 'Black')

INTO part (pid, pname, color) VALUES (206, 'Part F', 'White')

INTO part (pid, pname, color) VALUES (207, 'Part G', 'Orange')

INTO part (pid, pname, color) VALUES (208, 'Part H', 'Purple')

INTO part (pid, pname, color) VALUES (209, 'Part I', 'Pink')

INTO part (pid, pname, color) VALUES (210, 'Part J', 'Gray')

SELECT \* FROM dual

INSERT ALL

INTO catalog (sid, pid, color) VALUES (101, 201, 'Red')

INTO catalog (sid, pid, color) VALUES (102, 202, 'Blue')

INTO catalog (sid, pid, color) VALUES (103, 203, 'Green')

INTO catalog (sid, pid, color) VALUES (104, 204, 'Yellow')

INTO catalog (sid, pid, color) VALUES (105, 205, 'Black')

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INTO catalog (sid, pid, color) VALUES (108, 208, 'Purple')

INTO catalog (sid, pid, color) VALUES (109, 209, 'Pink')

INTO catalog (sid, pid, color) VALUES (110, 210, 'Gray')

SELECT \* FROM dual

10 rows inserted.

Elapsed: 00:00:00.024

**3. Add a column WEIGHT to the PART table.**

alter table part add weight number(5,2) default 0 not null;

Table PART altered.

Elapsed: 00:00:00.032

**4. Add a constraint to the SUPPLIER table which will allow the CITY column to have MUMBAI, DELHI, BANGALORE, KOLKATA or CHENNAI as the value only.**

Because we have data not related to this constrain

update supplier set city='mumbai'

alter table supplier add constraint check\_city check (city in ('mumbai','delhi','baglore','kolkata','chennai'))

**5. Change the colour of part 111 to grey.**

update part set pid=111 where color='Gray' ;

**6. Change the city of supplier PATEL to MUMBAI.**

update supplier set city=’mumbai’ where sname=’patel’;

**7. Delete all records from the CATALOG table where cost is more than 100 and less than 500.**

delete catalog where cost > 100 and cost < 500;

**8. Add a column COUNTRY to table SUPPLIER.**

Alter table supplier add column country varchar(20);

**9. Add values to the COUNTRY column.**

Update supplier set country = ‘india’;

ALTER TABLE supplier MODIFY country varchar(20) not null;

ALTER TABLE supplier MODIFY country varchar(20) DEFAULT 'india';

**10.Increase the size of COLOR column and decrease the size of PNAME column.**

ALTER TABLE part MODIFY pname VARCHAR2(50);

ALTER TABLE part MODIFY color VARCHAR2(50);

**11.Display supplier details of suppliers located at CHENNAI.**

Select \* from supplier where city=’chennai’;

**12.Display SID and PID where cost is between 1000 and 5000.**

Select sid,pid from catalog where cost between 1000 and 5000;