***ASSIGNMENT:01***

**DATE:** 03/01/2019

**Using the following tables write SQL queries:**

**TABLE1:** **SUPPLIERS (S#, S\_NAME, STATUS, CITY)**

**TABLE2: PARTS (P#, P\_NAME, WEIGHT, COLOR, CITY)**

**TABLE3: SPJ (S#, P#, QTY)**

**ENTITY:** SUPPLIERS

**ATTRIBUTE:** S#, S\_NAME, STATUS, CITY

**PRIMARY KEY:** S#

**ENTITY:** PARTS

**ATTRIBUTE:** P#, P\_NAME, WEIGHT, COLOR, CITY

**PRIMARY KEY:** P#

**ENTITY:** SPJ

**ATTRIBUTE:** S#, P#, QTY

**FOREIGN KEY:** S# references **SUPPLIER**

P# references **PARTS**

|  |
| --- |
| **SPJ** |
| S# |
| P# |
| QTY |

|  |
| --- |
| **SUPPLIERS** |
| S# |
| S\_NAME |
| STATUS |
| CITY |

|  |
| --- |
| **PARTS** |
| P# |
| P\_NAME |
| WEIGHT |
| COLOR |
| CITY |

**TABLE1:** **SUPPLIERS**

**CREATE TABLE**

CREATE TABLE SUPPLIERS(

S# NUMBER(3) PRIMARY KEY,

S\_NAME VARCHAR2(10),

STATUS VARCHAR2(10),

CITY VARCHAR2(10)

);

DESC SUPPLIERS;

Name Null? Type

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S# NOT NULL NUMBER(3)

S\_NAME VARCHAR2(10)

STATUS VARCHAR2(10)

CITY VARCHAR2(10)

**DATA INSERTION INTO TABLE**

INSERT INTO SUPPLIERS VALUES(111,'DEEP','GOOD','HALISAHAR');

INSERT INTO SUPPLIERS VALUES(222,'ARINDAM','GOOD','HALISAHAR');

INSERT INTO SUPPLIERS VALUES(333,'RAHUL','GOOD','PALPARA');

**RECORD STORED IN TABLE**

SELECT \* FROM SUPPLIERS;

S# S\_NAME STATUS CITY

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111 DEEP GOOD HALISAHAR

222 ARINDAM GOOD HALISAHAR

333 RAHUL GOOD PALPARA

**TABLE2:** **PARTS**

**CREATE TABLE**

CREATE TABLE PARTS(

P# NUMBER(3) PRIMARY KEY,

P\_NAME VARCHAR2(10),

WEIGHT NUMBER(3),

COLOR VARCHAR2(10),

CITY VARCHAR2(10)

);

DESC PARTS;

Name Null? Type

----------------------------------------- -------- ---------------------------

P# NOT NULL NUMBER(3)

P\_NAME VARCHAR2(10)

WEIGHT NUMBER(3)

COLOR VARCHAR2(10)

CITY VARCHAR2(10)

**DATA INSERTION INTO TABLE**

INSERT INTO PARTS VALUES(11,'KEYBOARD',500,'RED','AHMEDABAD');

INSERT INTO PARTS VALUES(22,'MOUSE',200,'RED','KOLKATA');

INSERT INTO PARTS VALUES(33,'MONITOR',900,'BLACK','AHMEDABAD');

**RECORD STORED IN TABLE**

SELECT \* FROM PARTS;

P# P\_NAME WEIGHT COLOR CITY

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11 KEYBOARD 500 RED AHMEDABAD

22 MOUSE 200 RED KOLKATA

33 MONITOR 900 BLACK AHMEDABAD

**TABLE3:** **SPJ**

**CREATE TABLE**

CREATE TABLE SPJ(

S# NUMBER(3),

P# NUMBER(3),

QTY NUMBER(3),

FOREIGN KEY(s#) REFERENCES SUPPLIERS(S#) ON DELETE CASCADE,

FOREIGN KEY(P#) REFERENCES PARTS(P#) ON DELETE CASCADE

);

DESC SPJ;

Name Null? Type

----------------------------------------- -------- --------------------------

S# NUMBER(3)

P# NUMBER(3)

QTY NUMBER(3)

**DATA INSERTION INTO TABLE**

INSERT INTO SPJ VALUES(111,11,210);

INSERT INTO SPJ VALUES(222,22,120);

INSERT INTO SPJ VALUES(333,33,190);

**RECORD STORED IN TABLE**

SELECT \* FROM SPJ;

S# P# QTY

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111 11 210

222 22 120

333 33 190

**QUERY 1: GET SUPPLIERS’ NAME WHOM SUPPLY ALL RED PARTS.**

SELECT S\_NAME FROM SUPPLIERS,PARTS,SPJ WHERE

SUPPLIERS.S#=SPJ.S# AND PARTS.P#=SPJ.P# AND COLOR='RED';

**OUTPUT:**

S\_NAME

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DEEP

ARINDAM

**QUERY 2: GET SUPPLIERS’ NAME WHOM SUPPLY ALL PARTS.**

SELECT S\_NAME FROM SUPPLIERS,PARTS,SPJ WHERE

SUPPLIERS.S#=SPJ.S# AND PARTS.P#=SPJ.P#;

**OUTPUT:**

S\_NAME

--------

DEEP

ARINDAM

RAHUL

**QUERY 3: GET SUPPLIERS’ NAME WHOM SUPPLY TO THE CITY ‘AHMEDABAD’.**

SELECT S\_NAME FROM SUPPLIERS,PARTS,SPJ WHERE

SUPPLIERS.S#=SPJ.S# AND PARTS.P#=SPJ.P# AND PARTS.CITY='AHMEDABAD';

**OUTPUT:**

S\_NAME

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DEEP

RAHUL