***ASSIGNMENT:05***

**DATE:** 24/01/2019

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

**TABLE1:** **PERSON (DRIVER\_ID, NAME, ADDRESS)**

**TABLE2: CAR (REGNO, MODEL, YEAR)**

**TABLE3: ACCIDENT (REPORT\_NO, ACCD\_DATE, LOCATION)**

**TABLE4: OWN (DRIVER\_ID, REGNO)**

**TABLE5: PARTICIPATED (DRIVER\_ID, REGNO, REPORT\_NO, DAMAGE\_AMMOUNT)**

**ENTITY:** PERSON

**ATTRIBUTE:** DRIVER\_ID, NAME, ADDRESS

**PRIMARY KEY:** DRIVER\_ID

**ENTITY:** CAR

**ATTRIBUTE:** REGNO, MODEL, YEAR

**PRIMARY KEY:** REGNO

**ENTITY:** ACCIDENT

**ATTRIBUTE:** REPORT\_NO, ACCD\_DATE, LOCATION

**PRIMARY KEY:** REPORT\_NO

**ENTITY:** OWN

**ATTRIBUTE:** DRIVER\_ID, REGNO

**FOREIGN KEY:** DRIVER\_ID references **PERSON**

REGNO references **CAR**

**ENTITY:** PARTICIPATED

**ATTRIBUTE:** DRIVER\_ID, REGNO, REPORT\_NO, DAMAGE\_AMMOUNT

**FOREIGN KEY:** DRIVER\_ID references **PERSON**

REGNO references **CAR**

REPORT\_NO references **ACCIEDENT**

|  |
| --- |
| **CAR** |
| REG\_NO |
| MODEL |
| YEAR |

|  |
| --- |
| **ACCIDENT** |
| REPORT\_NO |
| ACCD\_DATE |
| LOCATION |

|  |
| --- |
| **PERSON** |
| DRIVER\_ID |
| NAME |
| ADDRESS |

|  |
| --- |
| **PARTICIPATED** |
| DRIVER\_ID |
| REGNO |
| REPORT\_NO |
| DAMAGE\_AMMOUNT |

|  |
| --- |
| **OWN** |
| DRIVER\_ID |
| REGNO |

**TABLE1:** **PERSON**

**CREATE TABLE**

CREATE TABLE PERSON(

DRIVER\_ID VARCHAR2(4) PRIMARY KEY,

NAME VARCHAR2(20),

ADDRESS VARCHAR2(20)

);

DESC PERSON;

NAME NULL? TYPE

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DRIVER\_ID NOT NULL VARCHAR2(4)

NAME VARCHAR2(20)

ADDRESS VARCHAR2(20)

**DATA INSERTION INTO TABLE**

INSERT INTO PERSON

VALUES('&DRIVER\_ID','&NAME','&ADDRESS');

**RECORD STORED IN TABLE**

SELECT \* FROM PERSON;

DRIV NAME ADDRESS

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

P001 A. DAS DUNLOP

P002 C. CHAKRABORTY GARIFA

P003 R. GHOSH CHAKDAH

P004 R. ROY PALPARA

P005 D. DEY HALISAHAR

**TABLE2:** **CAR**

**CREATE TABLE**

CREATE TABLE CAR(

REGNO NUMBER(4) PRIMARY KEY,

MODEL VARCHAR2(10),

YEAR NUMBER(4)

);

DESC CAR;

NAME NULL? TYPE

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

REGNO NOT NULL NUMBER(4)

MODEL VARCHAR2(10)

YEAR NUMBER(4)

**DATA INSERTION INTO TABLE**

INSERT INTO CAR

VALUES(&REGNO,'&MODEL',&YEAR);

**RECORD STORED IN TABLE**

SELECT \* FROM CAR;

REGNO MODEL YEAR

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1001 MARUTI 2004

1014 FERRARI 2016

1121 HONDA 2014

1231 WAGONAR 2016

1021 MARUTI 1999

**TABLE3:** **ACCIDENT**

**CREATE TABLE**

CREATE TABLE ACCIDENT(

REPORT\_NO NUMBER(2) PRIMARY KEY,

ACCD\_DATE DATE,

LOCATION VARCHAR2(20)

);

DESC ACCIDENT;

NAME NULL? TYPE

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

REPORT\_NO NOT NULL NUMBER(2)

ACCD\_DATE DATE

LOCATION VARCHAR2(20)

**DATA INSERTION INTO TABLE**

INSERT INTO ACCIDENT

VALUES(&REPORT\_NO,'&ACCD\_DATE','&LOCATION');

**RECORD STORED IN TABLE**

SELECT \* FROM ACCIDENT;

REPORT\_NO ACCD\_DATE LOCATION

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

11 13-NOV-16 PARK STREET

12 25-JUN-18 KANCHRAPARA

13 02-JUL-17 KALYANI

14 30-JAN-18 LALBAJAAR

15 05-JAN-19 BARASHAT

**TABLE4:** **OWN**

**CREATE TABLE**

CREATE TABLE OWN(

DRIVER\_ID VARCHAR2(4),

REGNO NUMBER(4),

FOREIGN KEY (DRIVER\_ID) REFERENCES PERSON ON DELETE CASCADE,

FOREIGN KEY (REGNO) REFERENCES CAR ON DELETE CASCADE

);

DESC OWN;

NAME NULL? TYPE

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

DRIVER\_ID NOT NULL VARCHAR2(4)

REGNO NOT NULL NUMBER(4)

**DATA INSERTION INTO TABLE**

INSERT INTO OWN

VALUES('&DRIVER\_ID',&REGNO);

**RECORD STORED IN TABLE**

SELECT \* FROM OWN;

DRIV REGNO

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

P001 1121

P002 1231

P003 1021

P004 1014

P005 1001

**TABLE5:** **PARTICIPATED**

**CREATE TABLE**

CREATE TABLE PARTICIPATED(

DRIVER\_ID VARCHAR2(4),

REGNO NUMBER(4),

REPORT\_NO NUMBER(2),

DAMAGE\_AMMOUNT NUMBER(5),

FOREIGN KEY (DRIVER\_ID) REFERENCES PERSON ON DELETE CASCADE,

FOREIGN KEY (REGNO) REFERENCES CAR ON DELETE CASCADE,

FOREIGN KEY (REPORT\_NO) REFERENCES ACCIDENT ON DELETE CASCADE

);

DESC PARTICIPATED;

NAME NULL? TYPE

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

DRIVER\_ID NOT NULL VARCHAR2(4)

REGNO NOT NULL NUMBER(4)

REPORT\_NO NOT NULL NUMBER(2)

DAMAGE\_AMMOUNT NUMBER(5)

**DATA INSERTION INTO TABLE**

INSERT INTO PARTICIPATED

VALUES('&DRIVER\_ID',&REGNO,&REPORT\_NO,&DAMAGE\_AMOUNT);

**RECORD STORED IN TABLE**

SELECT \* FROM PARTICIPATED;

DRIV REGNO REPORT\_NO DAMAGE\_AMMOUNT

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

P001 1121 11 1200

P002 1231 13 250

P003 1021 12 2400

P004 1014 14 10000

P005 1001 15 2600

**QUERY 1: WRITE A SQL QUERY TO UPDATE THE DAMAGE AMOUNT FOR THE CAR WITH SPECIFIC REGNO IN THE ACCIDENT WITH REPORT NUMBER 12 TO 2500.**

UPDATE PARTICIPATED SET DAMAGE\_AMMOUNT=2500 WHERE REPORT\_NO=12;

**OUTPUT:**

SELECT \* FROM PARTICIPATED;

DRIV REGNO REPORT\_NO DAMAGE\_AMMOUNT

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

P001 1121 11 1200

P002 1231 13 250

P003 1021 12 2500

P004 1014 14 10000

P005 1001 15 2600

**QUERY 2: WRITE A SQL QUERY TO ADD A NEW ACCIDENT TO THE DATABASE.**

INSERT INTO ACCIDENT VALUES(16,'15-DEC-2018','MAJHERHAT');

**OUTPUT:**

SELECT \* FROM ACCIDENT;

REPORT\_NO ACCD\_DATE LOCATION

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11 13-NOV-16 PARK STREET

12 25-JUN-18 KANCHRAPARA

13 02-JUL-17 KALYANI

14 30-JAN-18 LALBAJAAR

15 05-JAN-19 BARASHAT

16 15-DEC-18 MAJHERHAT

**QUERY 3: WRITE A QL QUERY TO FIND THE NUMBER OF ACCIDENT IN WHICH**

**CARS BELONGING TO A SPECIFIC MODEL WERE INVOLVED.**

SELECT MODEL,COUNT(PARTICIPATED.REPORT\_NO)

AS NO\_OF\_ACCIDENTS

FROM CAR,PARTICIPATED

WHERE CAR.REGNO=PARTICIPATED.REGNO

GROUP BY MODEL;

**OUTPUT:**

MODEL NO\_OF\_ACCIDENTS

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FERRARI 1

WAGONAR 1

HONDA 1

MARUTI 2