SQL-DBS201 ASSIGNMENT-1 Worth 9%

DUE DATE: Nothing will be accepted after this date. It will get a zero

**Due BEFORE MIDNIGHT on the Friday, February 17th**

**Submission:**

Submit this document with SQL query and OUTPUT of the query.

**WHEN YOU PRINT OUTPUT MAKE SURE YOUR COLLECTION NAME SHUOLD BE THERE.**

If any output goes on for more than 5 lines, only cut and paste the first 5 or so. I don't want to get this word document too big.

**PLAGIARISM**   
When you submit an assignment, you are saying that the submission is your own work and as such you wish to be given credit for the work.

INSTRUCTION:

Create collection Assignment1xxx where xxx is first three digit of your student id.

Create following tables in your collection and insert minimum 5 rows for all TABLES.

|  |  |
| --- | --- |
| CREATE TABLE CUSTOMER  (CNAME CHAR(20) PRIMARY KEY,  CSTREET CHAR(20) NOT NULL,  CCITY CHAR(20) NOT NULL,  CPROV CHAR(20) NOT NULL,  CPOSTAL CHAR(10),  CHPHONE CHAR(13),  CBPHONE CHAR(13)  ); | CREATE TABLE CAR  (SERIAL CHAR(8) PRIMARY KEY,  CNAME CHAR(20) REFERENCES CUSTOMER(CNAME),  MAKE CHAR(10) NOT NULL,  MODEL CHAR(8) NOT NULL,  CYEAR CHAR(4) NOT NULL,  COLOR CHAR(12) NOT NULL,  TRIM CHAR(16) NOT NULL,  ENGINETYPE CHAR(10) NOT NULL,  PURCHINV CHAR(6),  PURCHDATE DATE,  PURCHFROM CHAR(12),  PURCHCOST DECIMAL(9,2),  FREIGHTCOST DECIMAL(7,2),  TOTALCOST DECIMAL(9,2),  LISTPRICE DECIMAL(9,2)); |
| CREATE TABLE PROSPECT  (CNAME CHAR(20) NOT NULL REFERENCES CUSTOMER(CNAME),  MAKE CHAR(10) NOT NULL CHECK (MAKE IN ('ACURA','MERCEDES','LAND ROVER','JAGUAR')),  MODEL CHAR(8),  CYEAR CHAR(4),  COLOR CHAR(12),  TRIM CHAR(16), UNIQUE(CNAME,MAKE,MODEL,CYEAR,COLOR,TRIM)  ); | CREATE TABLE SERVINV  (SERVINV CHAR(5) PRIMARY KEY,  SERDATE DATE NOT NULL,  CNAME CHAR(20) NOT NULL REFERENCES CUSTOMER(CNAME),  SERIAL CHAR(8) NOT NULL REFERENCES CAR(SERIAL),  PARTSCOST DECIMAL(7,2),  LABORCOST DECIMAL(7,2),  TAX DECIMAL(6,2),  TOTALCOST DECIMAL(8,2)  ); |
| CREATE TABLE SALEINV  (SALEINV CHAR(6) PRIMARY KEY,  CNAME CHAR(20) NOT NULL REFERENCES CUSTOMER (CNAME),  SALESMAN CHAR(20),  SALEDATE DATE NOT NULL,  SERIAL CHAR(8) NOT NULL REFERENCES CAR (SERIAL),  TOTALPRICE DECIMAL(9,2),  DISCOUNT DECIMAL(8,2),  NET DECIMAL(9,2),  TAX DECIMAL(8,2),  LICFEE DECIMAL(6,2),  COMMISSION DECIMAL(8,2),  TRADESERIAL CHAR(8) REFERENCES CAR (SERIAL),  TRADEALLOW DECIMAL(9,2),  FIRE CHAR(1) CHECK (FIRE IN ('Y','N')),  COLLISION CHAR(1) CHECK (COLLISION IN ('Y','N')),  LIABILITY CHAR(1) CHECK (LIABILITY IN ('Y','N')),  PROPERTY CHAR(1) CHECK (PROPERTY IN ('Y','N'))); |  |

Write answer of following query and display result of your query.

1. List all the data in all tables.

**SQL: SELECT \* FROM CUSTOMER, CAR, PROSPECT, SERVINV, SALEINV**

**OUTPUT: Position to line . . . . . Shift to column . . . . . .**

**....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+...10....+...11....+...12....+...13.**

**CNAME CSTREET CCITY CPROV CPOSTAL CHPHONE CBPHONE S**

2. How many vehicles were sold with some kind of insurance?

**SQL: SELECT COUNT(\*) AS Cnt FROM SALEINV WHERE LIABILITY = ‘Y’**

**OUTPUT:** **Position to line . . . . .**

**....+....1....**

**CNT**

**0**

3. Show all customer information for people interested in blue Jaguars.

**SQL: SELECT p.CNAME, c.CSTREET, c.CCITY, c.CPROV, c.CPOSTAL, c.CHPHONE, c.CBPHONE FROM PROSPECT p, CUSTOMER c WHERE p.CNAME = c.CNAME AND p.COLOR = ‘blue’ AND p.MAKE = ‘JAGUAR’**

**OUTPUT: Position to line . . . . . Shift to column . . . . . .**

**....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+...10....+...11....+...12...**

**CNAME CSTREET CCITY CPROV CPOSTAL CHPHONE CBPHONE**

4. List the names and home phone numbers of customers who purchased Jaguar XJRs and who do not have a business phone. (Descending name order) (No duplicates.)

**SQL: SELECT c.CNAME, cust.CHPONE FROM CAR c, CUSTOMER cust WHERE c.CNAME = cust.CNAME AND c.MAKE = ‘JAGUAR’ AND c.MODEL = ‘XJR’**

**OUTPUT:**

5 What is the average cost of service visits on 2009 Mercedes?

**SQL: SELECT AVG(Totalcost) As TotalAverage FROM SERVINV s, CAR c WHERE s.CNAME = c.CNAME AND c.MAKE = ‘MERCEDES’ AND c.YEAR = ‘2009’**

**OUTPUT:**

6 List the name and phone number of all customers who have purchased a car

**SQL: SELECT c.CNAME, cus.CHPONE, cus.CBPHONE FROM CAR c, CUSTOMER cus WHERE c.CNAME = cus.CNAME**

**OUTPUT:**

7 Print a list of salespersons names who have sold less than 3 cars.

**SQL: SELECT SALESMAN FROM SALEINV WHERE COUNT(\*) < 3 GROUP BY SALESMAN**

**OUTPUT:**

8 Update the customer street by ‘Moldovan drive’ for customer JOHN.

**SQL: UPDATE CUSTOMER SET CSTREET = ‘Moldovan drive’ WHERE CNAME = ‘JOHN’**

**OUPUT:**

9 Remove the row from the car table for make “ACURA”.

**SQL: DELETE FROM PROSPECT WHERE MAKE = ‘ACURA’**

**DELETE FROM CAR WHERE MAKE = ‘ACURA’**

**OUTPUT:**

10 Create a VIEW which includes the customer name, address, service invoice number and date along with the total value of each invoice. Give it a reasonable name.

**SQL: CREATE VIEW DOCTORDOG AS**

**SELECT cust.CNAME AS CUST\_NAME, cust.CSTREET + ‘ ‘ + cust.CCITY + ‘ ‘ + CPROV AS ADDRESS, s.SERVINV AS SERVICE\_INVOICE\_NUM, s.TOTALCOST AS TOTALCOST FROM SERVINV s, CUSTOMER c WHERE s.CNAME = c.CNAME**

**OUTPUT:**