Car Dealership System(Using SQL)

The process of selling cars must be automated by a company specializing in selling cars. The following are the steps:

1- Create the following tables:

(a) Cars : Create a table representing cars

(Car ID – Car Brand – Car Model – Number of Available Cars – Car Price – Car Specifications) with the car number PK)

(b) Customers : Create a table representing customers (b)

(Customer number c_id, customer name c_name, customer phone number c_mob_num) with the customer number being PK)

(C) Purchase: Create a table that represents purchase information (c)

(Customer number p_c_id is linked to customer table FK, car number p_m_id is linked to movie table FK, purchase date p_date)

2- Create a procedure that prints a list of sold cars(including the car brand).

(Car model - Customer name) from the table Purchase using cursor technology with error handling resulting from dealing with it as an open cursor.

3-Create a procedure that prints a list of cars sold to a specific customer including:

(Car brand - car model - customer name) from the table Purchase Using cursor technology with error handling resulting from dealing with it as an open cursor.

4- Create a function that takes the customer number and car number as input and does the following:

- Ensure that the customer whose number is entered is present. If he is not present, it processes the errors (not found, null) exceptions and displays an explanatory message.

- Ensure that the vehicle whose number is entered is present. If it is not present, it processes the errors (not found, null) and displays an explanatory message.

- If there is a customer and a car, ensure that the customer can purchase the car by finding the number of cars purchased from this brand from the Purchase table and comparing it with the number of cars available (car_count) (from the cars table) (car_count must be greater than the number of cars purchased from this brand).

-The function returns 1 if the purchase is allowed, and 0 if the purchase is rejected.

5- Create a procedure to complete the car purchase process, taking the customer's number as input.

Add the car number and do the following:

- Ensure that the customer can purchase the car by calling the previous subordinate.

- If the purchase is not possible, the procedure prints an explanatory message.

- If the purchase is possible, the procedure adds a line to the purchase table.

6- The Trigger book stores information about any modification - addition - deletion - operation that takes place on a table.

Customers, where this information includes (customer number, the transaction that was completed, the user who performed the transaction, the transaction date, the old customer's name, the new customer's name, the old phone number, the new phone number)

7- Writing a PLSQL BLOCK that calls the functions and procedures created in the previous points as well as

-Completing two purchase transactions for two customers and two cars by reading the necessary data from the user. One of the transactions is successful and the other fails.

- Print a list of cars sold by calling the procedure in order 2.
- Print a list of cars sold to a specific customer by calling the procedure in order 3.
- Adding a new customer and modifying a customer number.
- Print a log of all transactions made on the customers table.