



DHA SUFFA UNIVERSITY

Department of Computer Science

CS-2003L Database Systems Spring 2022

FINAL PAPER

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Section: 4D

05 July 202

Name: _____

Marks: 30

Reg. No: _____

Time Allowed: 2 Hours

- Create the following tables and set their Primary keys. Choose data types according to the data provided.
Products (prodid, prodname, prodcategory, prodprice, supid)
Customers (custid, custname, custcity)
Suppliers (supid, supname, supcity, supeestablished)
Orders (custid, prodid, ordstatus)
Show structures of all the tables. Insert data into these tables by importing it through the CSV files provided.
- Create a temporary table prod by copying complete data from Products table into it. Now, write a query to update the Prices in the temporary table prod of those products only which belong to that Product Category whose total orders are at most five.
[Use Subqueries]
- Create a cloned table prodTemp from Products table. Ensure that it clones all the table's constraints, Primary and Foreign keys and its structure but not its data. Show its structure and data to validate this.
- Create a cloned table prodClone having three columns: Customer name, Product name and their respective Order Status. Ensure that it clones all the table's data, constraints and its structure but not its Primary and Foreign keys. Show its structure and data to validate this.
- Create a view supView having three columns: supid, supname and supeestablished. Restrict it to not include Suppliers that have been recently established (i.e. in 2019). Ensure that this restriction allows no insertion of this kind in the base table too. Try inserting a new record in the view that has supeestablished="2019-02-21" and validate that it doesn't get inserted in supView as well as the base table.
- Repeat part (e) by creating a view supView2. Ensure that this restriction allows inserting the restricted data in the base table but not in the view.
Try inserting a new record in the view that has supeestablished="2019-02-21" and validate that it does not get inserted in supView but gets inserted in the base table.
- Display the Names and Prices of all the Products along with their Status (Expensive if the product price is greater than 1000 and Cheap if it is less than 1000) and Average price of all the Products rounded to nearest two decimal places.
- Display the average of the maximum prices of all Product categories.
[Use Subqueries]

- i. Display the least expensive products' name for each product category. Also display their supplier names and product prices alongside.
[Use Subqueries]
- j. Create a Stored Procedure that accepts a Supplier's id and returns its Name and Status. Status should be "Least Preferred Supplier" if it supplies less than five Products, "Averagely Preferred Supplier" if it supplies greater than 5 but less than 8 Products or "Most Preferred Supplier" if it supplies more than 8 Products. Display Results.
- k. Create a Stored Procedure that displays complete records of the first 12 Customers along with specified Shipping cost based on the city they live in. Display Results.

City Name	Shipping Charges
Berlin	\$2.5
Boston	\$0.5
Chicago	\$1.0
Melbourne	\$3.5

You are required to use CASE statement and any of the LOOP statements.