DCSE, CEG, AU :: B.E. - CSE – II yr – IV Sem (P) / CS6106 – DBMS LAB
10-Apr-2024 (AN)

1. Create tables for the following schema definitions by choosing appropriate data type and set necessary primary and foreign key constraints.

   ***DBSchema*** *{*
   *Product (Prodid, Description, Price, Stock);*
   *Purchase(Purchaseid, Prodid, Quantity, Suppliername);*
   *Sales (Saleid, Prodid, Quantity, Customername); }*

   *Show the schema of each table.*

2. Insert minimum 5 records into each table.
   *Show the contents of each table after insertion.*

**Answer the following using *DBSchema*:**

3. Retrieve the ids of the products that are either sold or purchased.

4. Retrieve the id and stock of the products that are purchased but not sold. Display the details in decreasing order of stock.

5. Define a trigger TS to update the Product.Stock whenever any addition of record(s) is (are) performed on Sales.
   *Prove the working of TS.*

6. Define a trigger TP to update the Product.Stock whenever any modification is performed on Purchase.Quantity.
   *Prove the working of TP.*

7. Create a view VS that displays productid, salesid, customer name, and supplier name.
   *Show the contents of VS.*

8. Retrieve the Product id of Product.

9. Create a user defined function ‘getavailablestock’ that returns the stock of given ‘productid’.
   *Prove the working of the function.*

10. Create a procedure to print the details of sold products
    *Prove the working of the procedure.*

11. Create an index on Product id of Product.

12. Retrieve the Product id of Product.
    *Comment on time taken by qn.6 and qn. 8 to retrieve the results.*