

**Birla Institute of Technology and Science Pilani, Pilani Campus**  
**Department of Computer Science and Information System**  
**2<sup>nd</sup> Semester 2020-21**  
**Database System (CS F212)**  
**Lab Quiz April-2021 (Open Book)**

**Maximum Marks:** 30(10%)

**Time:** 30 Minutes

---

Q:-1. List the top 5 selling products with name, product code, and total quantity sale. [2]

Q:-2. Write SQL queries to do the following task. [2+2+2+2+3]

- a. Find the name, type, and vendor of the product that gives the seller the highest sale margin.
- b. Count the number of orders for the product of the highest sale margin.
- c. List the name of customers who brought the product that gives the highest sale margin to the seller.
- d. List the name of customer, customer ID, type of product, and quantity ordered, who gives the highest profit to the seller.
- e. Find the name of the vendor who supplied all types of products to the seller.

Q:-3. Write SQL queries to do the following task. [3+4]

- a. Create a stored procedure, '*Get\_Sale\_repe\_wise\_Customers*' to print a sales representative-wise list of customers. The user inputs the sales representative's ID at the run time. Also, write the test query to call that procedure.
- b. Create a stored function, '*get\_profit*' to show the seller's profit for each order, along with the order id and product code. Also, write the test query to call that function.

Q:-4. Write SQL queries to do the following task. [5+5]

- a. Create a trigger, '*msrplog*' to maintain the logs of MSRP changes in a separate table, *MSRPlog*<*productCode*, *MSRP*, *updatetime*>. Write query for create table, create a trigger, and a test query to check the trigger's functionality.
- b. Write a stored procedure, '*fetch\_type\_orderdetails*' to fetch order details of specific product type and store these details in a separate table, *type\_orderdetails*<*orderID*, *productCode*, *type*, *quantityOrdered*, *priceEach*>. The user passes product type as an input parameter. Write query for creating procedure, create table, and procedure call.