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|  | **Database Management Systems**  **BSCS-4**  **Department of Computer Science**  **Bahria University, Lahore Campus** |

**Quiz: 3**

Date: Week 13, December 18, 2023

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Evaluation of CLO** | **Question Number** | **Marks** | **Obtained Marks** |
| **CLO: Apply queries to extract database.** |  |  |  |
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| **Total Marks** | | **10** |  |

**Question 1:**

* Write a query to create a view for those salesmen belongs to the city New York.

CREATE VIEW NewYorkSalesmen AS

SELECT \*

FROM Salesmen

WHERE city = 'New York';

* Write a query to create a view for all salesmen with columns salesman\_id, name, and city.

CREATE VIEW AllSalesmen AS

SELECT salesman\_id, name, city

FROM Salesmen;

* Write a query to find the salesmen of the city New York who achieved the commission more than 13%.

CREATE VIEW HighCommissionNYSalesmen AS

SELECT \*

FROM Salesmen

WHERE city = 'New York' AND commission > 0.13;

* Write a query to create a view to get a count of how many customers we have at each level of a grade

CREATE VIEW CustomerGradeCount AS

SELECT grade, COUNT(\*) AS customer\_count

FROM Customers

GROUP BY grade;

**Question 2:**

* List products with order quantities greater than 100.

SELECT ProductID, ProductName, Quantity

FROM Products

JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID

WHERE Quantity > 100;

* List all customers with their total number of orders

SELECT Customers.CustomerID, Customers.CustomerName, COUNT(Orders.OrderID) AS TotalOrders

FROM Customers

LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID

GROUP BY Customers.CustomerID, Customers.CustomerName;

* Which products were sold by the unit (i.e. quantity = 1)

SELECT ProductID, ProductName

FROM Products

JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID

WHERE Quantity = 1;