SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
PUNE

Module End Lab Exam Database Technologies

Course Name:	PG – DAC	**Batch :**	Feb 25
Module Name:	Database Technologies	**Date:**	21/ 03 / 2025
Max. Marks:	40	**Duration**	2:00 Hours

Instructions :

1. Create new Word File by the name DBT_12_digit_PRN in your home directory.
2. After evaluation first compress/zip your folder (named DBT_12 digit PRN) and upload it on EMIS.

Question

Solve the following Queries using "northwinddb" database

Q1. Find customers from 'Germany' and display their ContactName, City, and Phone number. **(Use the Customers table)**

Q2. Write a query that shows the FirstName, LastName, and their respective regions if the region is NOT NULL. **(Use the Employees table)**

Q3 Write a query to display the FirstName and EmployeeID of employees whose names start with the letter 'J'. **(Use the Employees table)**

Q4. Retrieve the product names and unit prices for products priced between $10 and $50. **(Use the Products table)**

Q5. Write a query to replace all occurrences of 'Co.' with 'Company' in the CompanyName of the customers.**(Use the Customers table)**

Q6. Write a query to display the FirstName, LastName, and CompanyName of all employees, even if they don't share a city with any customer. **(Use Join)**

Q7. Write a query to display the FirstName and LastName of employees who work in the same region as other employees. **(Use Join)**

Q8. List the supplier names along with their corresponding product names. **(Use the Suppliers and Products tables)**

Q9 Retrieve the order count for each customer, sorted by the highest number of orders. **(Use Customers and Orders tables)**

Q10. Write an SQL query to find the category that has the highest number of products. Display the CategoryName and the ProductCount for this category. **(Use Join)**

Q11.
Write a SQL query to create a stored procedure GetProductCountByCategory that retrieves the list of categories, along with the number of products in each category. Ensure the results are sorted in descending order by the number of products.

Q12.
Create a stored function named EmployeeOrderCount that accepts an EmployeeID as a parameter and returns the total number of orders processed by that employee. Use the Employees and Orders tables from the Northwind database to implement this.

Sr. No.	Points to cover	Max Marks
1	**Sql Queries**	20
2	**Stored Procedure**	10
3	**Stored Function**	10
	Total :-	40