Student Name ....

Student ID ....

Database Design
BCDE103

Practical Assessment – SQL Test

Semester 2 2020
Date: In Class Test

Time: 10.10am – 12.00am

Time Allowed: 1 hour 50 minutes
Students are encouraged to read through the exam
in the first ten (10) minutes and ask any questions.

Instructions:
Answer **ALL** questions.
This is an **OPEN** resources test.
Students are allowed to use their **OWN** resources.
All required files located on the BCDE103 Moodle site under the "SQL Practical Tests" tab.

TOTAL MARKS: 50

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This test worth 25% of the total marks for this course.
This assignment has three (3) pages including the cover sheet.

1. *Restore and Select the SQLTest.bak database.*

   (Marks 1)

2. Give the identifier and the name of the companies that provide more than 3 products.

   (Marks 3)

3. Write a query that lists the number of customers in each country. Only include countries with more than 5 customers and order them by descending order of Number of Companies.

   (Marks 3)

4. Display the ProductID and ProductName that have less than 50 Units in Stock. Order them by ASCENDING Units in Stock.

   (2 Marks)

5. List the SupplierID and CompanyName of all companies that are located in "Germany".

   (2 Marks)

6. Display the First Name and Last Name (concatenated) and City of all Employees who live in cities that start with the letters 'S' or 'T'.

   (2 Marks)

7. For ALL Condiments, display the Category Name, the Product Name, and the Company Name of the supplier.

   (3 Marks)

8. Write a query to count the number of current products having a name beginning with 'B'

   (3 Marks)

9. Write a query to get the cheapest product(s). Display the name, unit price and units in stock.

   (3 Marks)

10. Write a query to get a Product list (id, name, unit price, units on order) where the units on order are greater than 5.

    (2 Marks)

11. Write a query to select the name of the products that are in the Top 20 order quantities. Order by descending Quantity.

(3 Marks)

12. Create a query showing all the orders sorted by Freight from cheapest to most expensive. Show the OrderID, OrderDate, ShippedDate, CustomerID, and ShipCountry

(2 Marks)

13. Write a query that lists the number of customers in each country. Only include countries with more than 10 customers and order them by ascending order of number of customers.

(4 Marks)

14. Display [CompanyName],[ContactName], [ContactTitle],[City], [Country] where the city is "Buenos Aires" and the country is "Argentina".

(2 Marks)

15. Create a query showing the first and last name (concatenated) of all sales representatives who are from "Seattle" or "Redmond".

(3 Marks)

16. List the Employee ID, First Name, Last Name and Territory Description of all employees who look after Territories starting with 'B'.

(3 Marks)

17. Give the name of customers who bought all products purchased by the customer whose identifier is "LAZYK".

(3 Marks)

18. Give the employee name and the customer name for orders that were sent by the company "Speedy Express" to customers who live in Madrid.

(4 Marks)

19. Give the title and name of employees who have sold at least one of the products "Gravad Lax" or "Mishi Kobe Niku"

(2 Marks)