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Date: Signatures:

Course Name: Database Systems	Course Code: CMPE-332L
Assignment Type: Lab	Dated: 11-09-2023
Semester: 5 th	Session: 2021
Lab/Project/Assignment #: Lab 2	CLOs to be covered: CLO1, CLO4
Lab Title: Getting Comfortable with SQL	Teacher Name: Ms. Darakhshan

Lab Evaluation:

CLO1	Construct DML queries to retrieve and store data in different relations					
Levels (Marks)	Level1	Level2	Level3	Level4	Level5	Level6
Cognitive (2.5)						
Total						/5
CLO4	Develop projects using learned techniques to solve real world problem with small/large data and learn how to query, visualize, report and make prediction on it.					
Levels (Marks)	Level1	Level2	Level3	Level4	Level5	Level6
Cognitive (3)						
Total						/5

Rubrics for Current Lab:

Scale	Marks	Level	Rubric
Excellent	5	L1	Understood schema shared for project 1. Have explored it using BigQuery. Understands how query can consume quota of BigQuery.
Very Good	4	L2	Completed all the activities of Chapter 2 of TSQL Fundamentals book.
Good	3	L3	Created tables and have written all queries (lab activities) related to operator precedence, DISTINCT, and ORDER BY clauses while perform the lab activities. Understands how NULL affects the result of query.
Basic	2	L4	Knows how to write SQL queries with WHERE clause.
Barely Acceptable	1	L5	Just created tables and entered data
Not Acceptable	0	L6	Did not attempt

Rubrics for Homework

Scale	Marks	Level	Rubric
Excellent	5	L1	Completed all 10 questions. Understands the concept of SELECT, PROJECT, WHERE, NULL, DISTINCT and Operator precedence concepts. No plagiarism involved. Can re-write query for a different schema related to the mentioned concepts. No plagiarism

Homework Questions:

All the given tasks should be performed in the context of Northwind schema.

1. Write a query to report orders which were delayed shipped.

```
SELECT * FROM Orders
WHERE ShippedDate > RequiredDate
```

2. Our employees belong to how many countries. List the names.

```
SELECT DISTINCT Country FROM Employees
```

3. Is there any employee whose is not accountable?

```
SELECT * FROM Employees
WHERE ReportsTo IS NULL
```

4. List the names of products which have been discontinued.

```
SELECT ProductName FROM Products
WHERE Discontinued = 1
```

5. List the IDs the orders on which discount was not provided.

```
SELECT OrderID FROM [Order Details]
WHERE Discount=0
```

6. Enlist the names of customers who have not specified their region.

```
SELECT ContactName FROM Customers
WHERE Region IS NULL
```

7. Enlist the names of customers along with contact number who either belongs to UK or USA.

```
SELECT ContactName, Phone FROM Customers
WHERE Country IN ('UK', 'USA')
```

8. Report the names of companies who have provided their web page.

```
SELECT CompanyName FROM Suppliers
WHERE HomePage IS NOT NULL
```

9. In which countries, products were sold in year 1997.

```
SELECT ShipCountry FROM Orders
WHERE OrderDate BETWEEN '1997-01-02' AND '1997-12-31'
```

10. List the ids of customers whose orders were never shipped.

```
SELECT CustomerID FROM Orders  
WHERE ShipRegion IS NULL
```