Lab 01

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# Objectives:

The purpose of the first lab of DBS211 is to familiarize yourself with the User Interface, SQL Developer, that we will be using throughout the course to communicate with the Oracle server. By the end of this lab you should be able to:

* Successfully establish a connection with and login to the Oracle database server using SQL Developer
* Run the sample database creation script
* Navigate SQL Developer to view the tables created, their structure and the data contained within them.

# Preface:

If you have not already done so, you will need to download the sample database creation script from blackboard and run it.

# SUBMISSION

**You must upload screenshots of successful run of SQL statements and answer to any question in a single pdf / word file. For the word or pdf file, you may use this document and insert screenshots and answers in the appropriate place and upload the file in blackboard.**

# Tasks – Explore the Database and the Development Environment

In the connections window, expand **Tables.**

1. How many tables have been created? List the names of the created tables.

Ans) There are 8 tables which are created. Below are the name of the created table:

1. CUSTOMERS
2. EMPLOYEES
3. OFFICES
4. ORDERDETAILS
5. ORDERS
6. PAYMENTS
7. PRODUCTLINES
8. PRODUCTS

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1. Click on table **customers**. Click on the Data tab near the top of the worksheet. How many rows are there in the table **customers**?

Ans) There are 122 rows in the customers table.

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1. What SQL statement would return the same results. Write the statement in the .sql file and execute it.   
     
   You will learn how to select rows and columns from a table by writing SQL select statements later in this course.

Ans) There is a statement which return the same results, which is : select \* from customer

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1. How many columns does the **customers** table have? List the column names.

Ans) There are 13 columns in the customers table. Below are the mentioned columns:

1. CUSTOMERNUMBER
2. CUSTOMERNAME
3. CONTACTLASTNAME
4. CONTACTFIRSTNAME
5. PHONE
6. ADDRESSLINE1
7. ADDRESSLINE2
8. CITY
9. STATE
10. POSTALCODE
11. COUNTRY
12. SALESREPEMPLOYEENUMBER
13. CREDITLIMIT

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1. What is the value of each column in the first row in table **customers**? Write the column name and the column data type in addition to the value.

Ans) CUSTOMERNUMBER NUMBER(38,0) No 1

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1. Write the number of rows and columns for the rest of the tables in your schema. Format it something like the following.

Ans)

Table Name Rows Columns

CUSTOMERS 122 13

EMPLOYEES 23 8

OFFICES 7 9

ORDERDETAILS 2996 5

ORDERS 326 7

PAYMENTS 273 4

PRODUCTLINES 7 4

PRODUCTS 110 9

1. Right Click on the **orderdetails** table and choose tables/count rows. How many rows does the order details table include?  
   Ans) There are 2996 rows in the orderdetails.

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1. Write the following SQL statement in the new tab.

desc offices;

You can also write

describe offices;

What is the result of the statement execution?

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9Type the following statements in, execute them, then briefly describe what the statement is doing!

SELECT \* FROM employees;

SELECT \* FROM customers ORDER BY ContactLastName;

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1. How many constraints does the **products** table have?  
   Ans) There are 11 constraints in the products table.

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1. Find a way to turn on line numbers in the gutter. Where is the gutter? Describe its location in your solution file.  
   Ans) The location if gutter is go to tools then preferences then there is line gutter.You can see the check box for line numbers, tick it !

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1. Set the font size in the worksheet editor to a size that is best for you. (Hint: Tools/Preferences)

Ans) I choose font size as 16, cause its clear and visible enough for me.

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