

Lab 01

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:

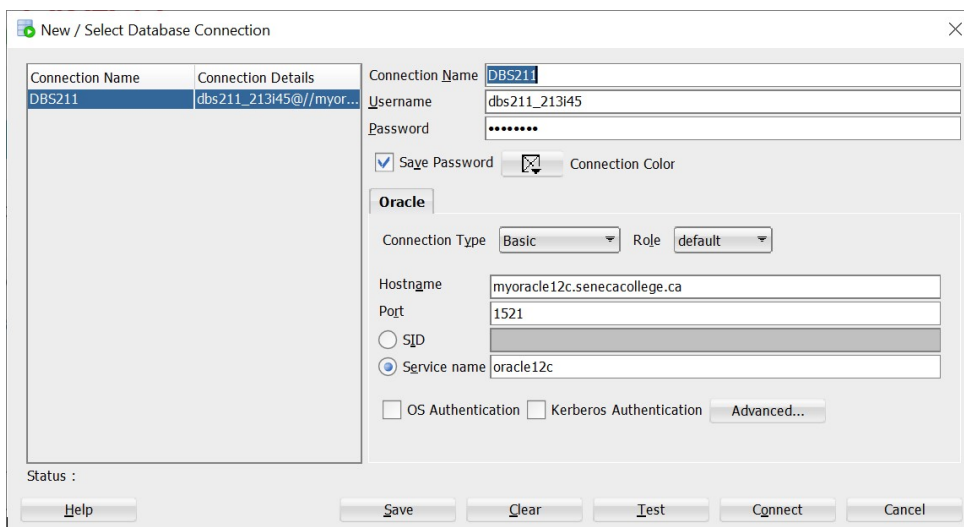
If you have not already done so, you will need to download the sample database creation script from blackboard and run it. These instructions are included in the W01 - Getting Started with SQL Developer document.

LAB 01 - SUBMISSION

Explore the Database

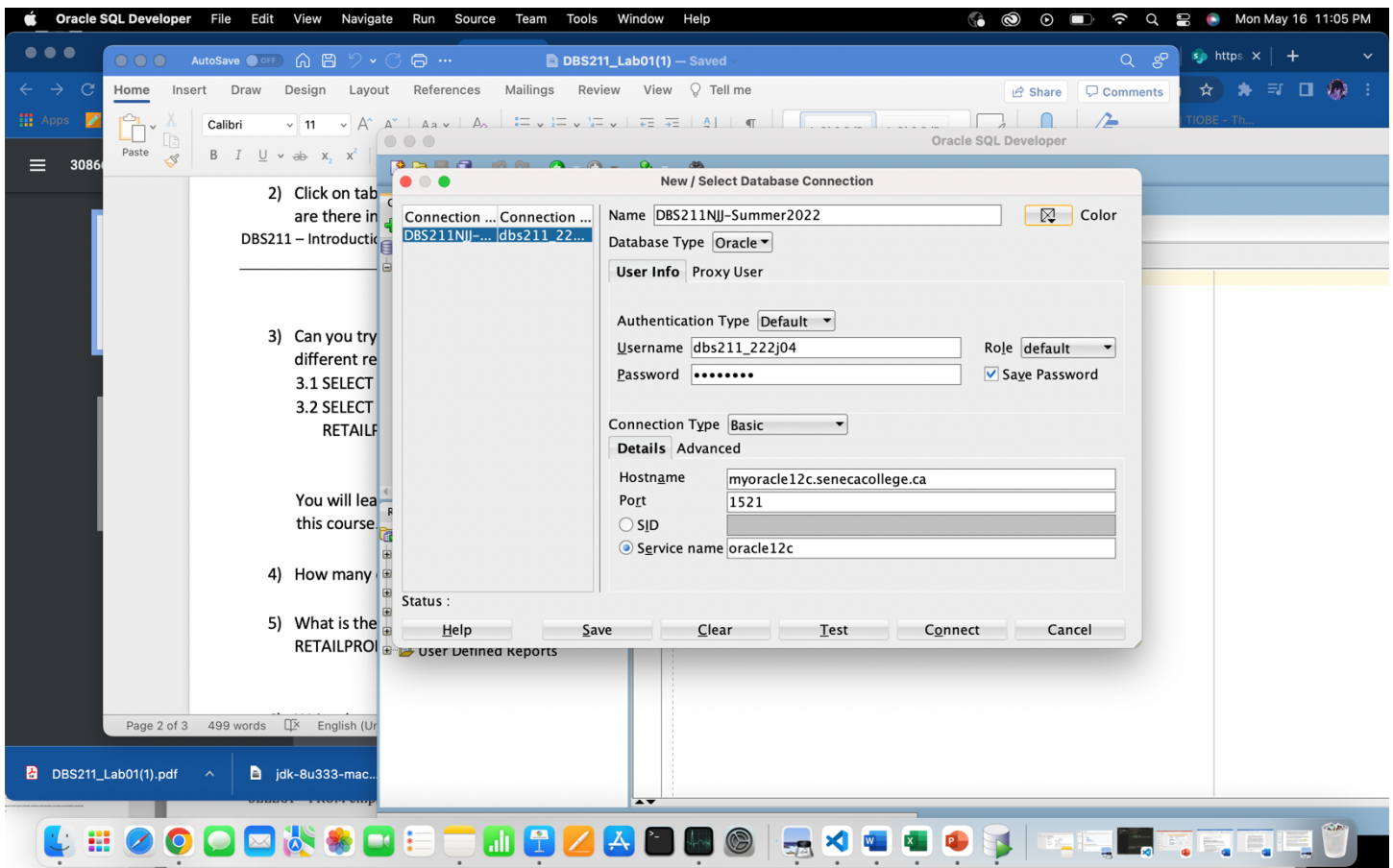
Answer the following questions in the **SQL Developer Worksheet area** and submit **a Word document** capturing the screenshots of the SQL results.

- Your Header of the Word file should include **FULL NAME, STUDENT ID and EMAIL**.
- The first screenshot of this lab should include the screenshot of your database login settings of your login information screen and the tables created.
- The following questions in your Word document should have the question, followed by the statement used or the answer in words and if it has a result in SQL Developer please paste the screenshot.
- **EXAMPLE SCREENSHOT**



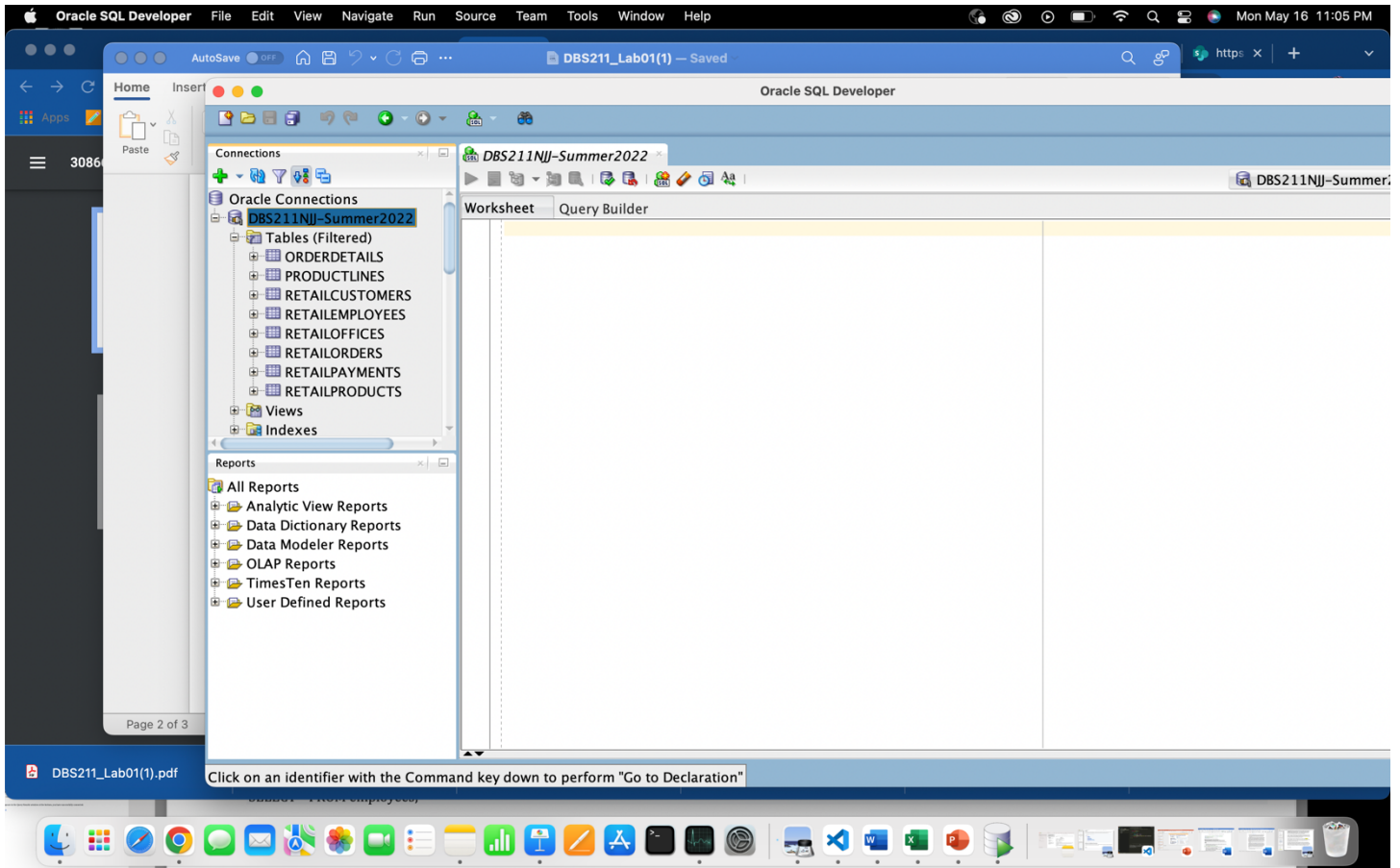
SOME SNAPSHOTS :-

i. DATABASE LOGIN SETTINGS WITH MY LOGIN INFORMATION :-



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ii. TABLES CREATED WITH THE SAMPLE SCRIPT :-



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

➔ There are in total 8 tables created. The tables created are –

1. ORDERDETAILS,
2. PRODUCTLINES,
3. RETAILCUSTOMERS,
4. RETAILEMPLOYEES,
5. RETAILOFFICES,
6. RETAILORDERS,
7. RETAILPAYMENTS, and
8. RETAILPRODUCTS.

2) Click on table **RETAILPRODUCTS**. Click on the Data tab near the top of the worksheet. How many rows are there in the table RETAILPRODUCTS?

There are total 110 rows in the table RETAILPRODUCTS.

3) Can you try the following SQL statement and write down how many results were displayed. Was it different results for all 3?

3.1 SELECT * FROM RETAILPAYMENTS;

3.2 SELECT count(*) FROM RETAILPAYMENTS; 3.3 SELECT count(1) FROM
RETAILPAYMENTS;

➔ Yes, I successfully executed the above SQL statement on Oracle SQL Developer.

The result was 273 rows selected and it was same for all the three queries(statements).

You will learn how to select rows and columns from a table by writing SQL select statements later in this course.

4) How many columns does the REATAILOFFICES table have? List the column names.

➔ There are total 9 columns in the RETAILOFFICES table.

Column names :-

1. OFFICECODE
2. CITY
3. PHONE
4. ADDRESSLINE1
5. ADDRESSLINE2
6. STATE
7. COUNTRY
8. POSTALCODE
9. TERRITORY

5) What is the value of PRODUCTNAME and PRODUCTLINE for **PRODUCTCODE S18_1129** in RETAILPRODUCTS table.

➔ PRODUCTNAME - 1993 Mazda RX-7

➔ PRODUCTLINE – Classic Cars

6) Write the number of rows and columns for REATILOORDERS and ORDERDETAILS tables in the following format.

<u>Table Name</u>	<u>Rows</u>	<u>Columns</u>
<u>RETAILORDERS</u>	<u>326</u>	<u>7</u>
<u>ORDERDETAILS</u>	<u>2996</u>	<u>5</u>

7) Right Click on the ORDERDETAILS table and choose tables/count rows. How many rows does the order details table include?

➔ ORDERDETAILS table contains 2996 rows.

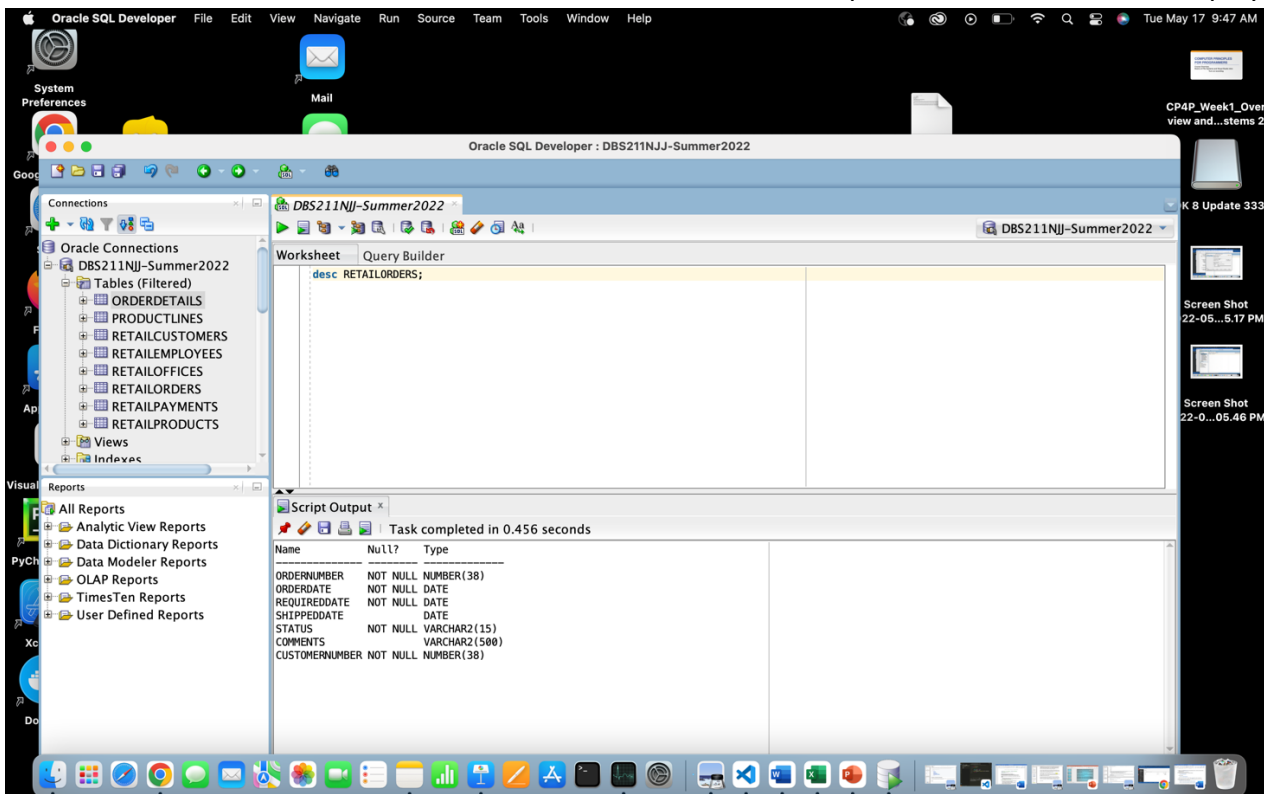
8) Write the following SQL statement in a new SQL worksheet.

```
desc RETAILORDERS;
```

You can also write

```
describe RETAILORDERS;
```

What is the result of the statement execution? Take a snap shot of the results and display them



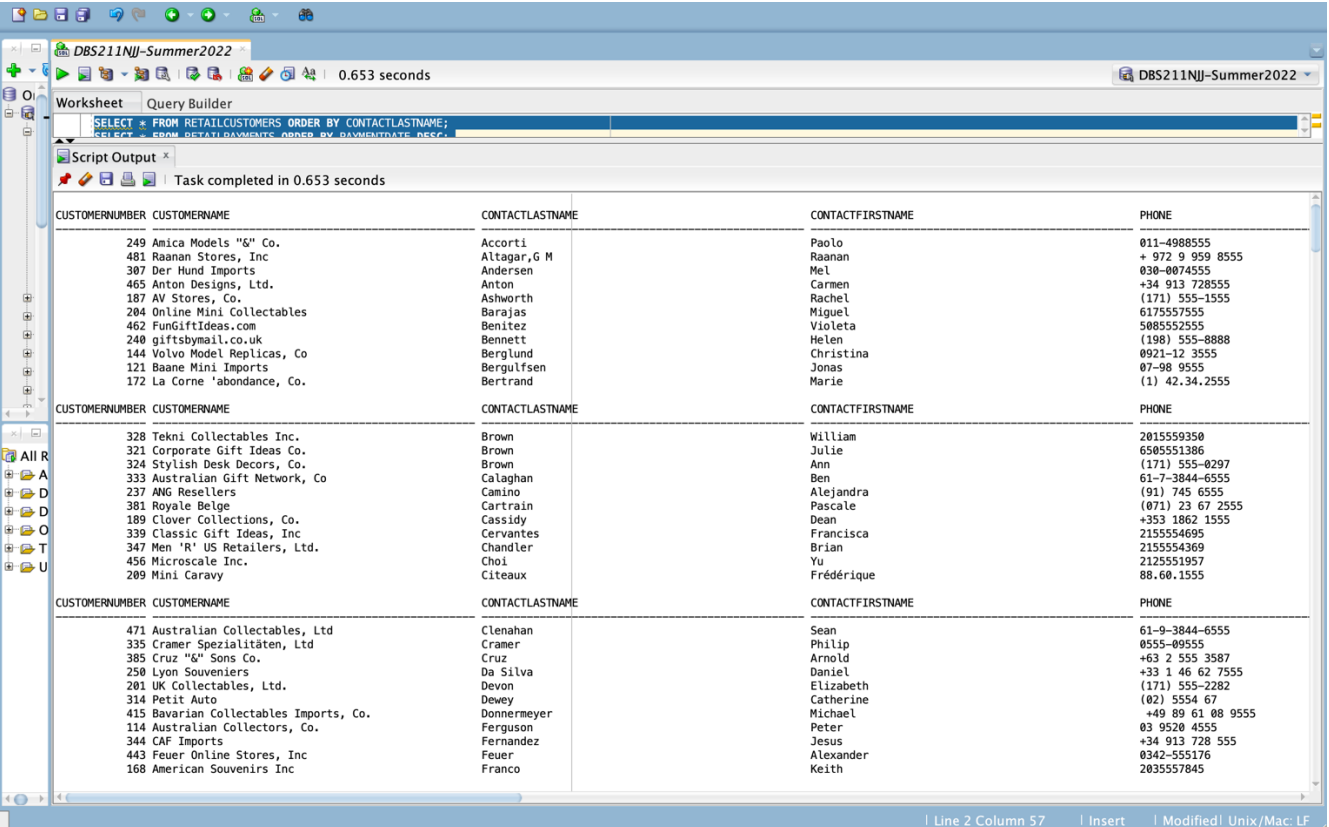
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9) Type the following statements in, execute them, then briefly describe what the statement is doing!. Take a snap shot of the results and display them

```
SELECT * FROM RETAILCUSTOMERS ORDER BY CONTACTLASTNAME;
```

The above statement, when executed, selects and retrieves all the rows from the table "RETAILCUSTOMERS" and also displays those rows in the output screen, in alphabetical order as per the "CONTACTLASTNAME" data of the table.

SNAPSHOT :-



The screenshot shows a database application window titled "DBS211NJ-Summer2022". The "Query Builder" tab is active, displaying the SQL statement: `SELECT * FROM RETAILCUSTOMERS ORDER BY CONTACTLASTNAME;`. The "Script Output" tab shows the execution results, which are displayed in a table format. The table has four columns: CUSTOMERNUMBER, CUSTOMERNAME, CONTACTLASTNAME, CONTACTFIRSTNAME, and PHONE. The results are sorted alphabetically by CONTACTLASTNAME. The table contains 30 rows of data, grouped into three sections by a dashed line. The first section contains 10 rows, the second section contains 10 rows, and the third section contains 10 rows.

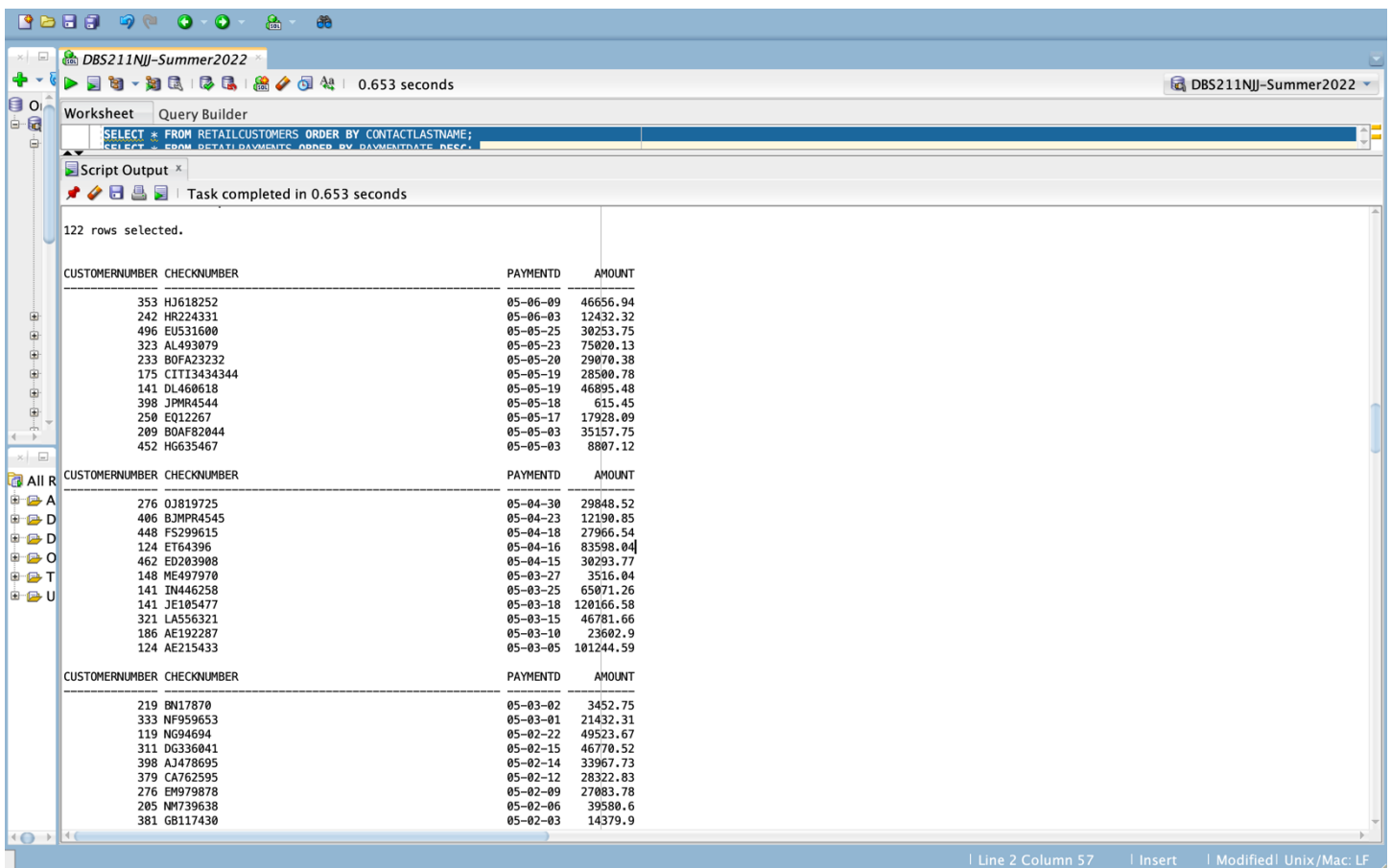
CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE
249	Amica Models "E" Co.	Accorti	Paolo	011-4988555
481	Raanan Stores, Inc	Altagar, G M	Raanan	+ 972 9 959 8555
307	Der Hund Imports	Andersen	Mel	030-0074555
465	Anton Designs, Ltd.	Anton	Carmen	+34 913 728555
187	AV Stores, Co.	Ashworth	Rachel	(171) 555-1555
204	Online Mini Collectables	Barajas	Miguel	6175557555
462	FunGiftIdeas.com	Benitez	Violeta	5085552555
240	giftsbyemail.co.uk	Bennett	Helen	(198) 555-8888
144	Volvo Model Replicas, Co	Berglund	Christina	0921-12 3555
121	Baane Mini Imports	Bergulfsen	Jonas	07-98 9555
172	La Corne 'abundance, Co.	Bertrand	Marie	(1) 42.34.2555
328	Tekni Collectables Inc.	Brown	William	2015559350
321	Corporate Gift Ideas Co.	Brown	Julie	6505551386
324	Stylish Desk Decors, Co.	Brown	Ann	(171) 555-0297
333	Australian Gift Network, Co	Calaghan	Ben	61-7-3844-6555
237	ANG Resellers	Camino	Alejandra	(91) 745 6555
381	Royale Belge	Cartrain	Pascale	(071) 23 67 2555
189	Clover Collections, Co.	Cassidy	Dean	+353 1862 1555
339	Classic Gift Ideas, Inc	Cervantes	Francisca	2155554695
347	Men 'R' US Retailers, Ltd.	Chandler	Brian	2155554369
456	Microscale Inc.	Choi	Yu	2125551957
209	Mini Caravy	Citeaux	Frédérique	88.60.1555
471	Australian Collectables, Ltd	Clenahan	Sean	61-9-3844-6555
335	Cramer Spezialitäten, Ltd	Cramer	Philip	0555-09555
385	Cruz "G" Sons Co.	Cruz	Arnold	+63 2 555 3587
250	Lyon Souvenirs	Da Silva	Daniel	+33 1 46 62 7555
201	UK Collectables, Ltd.	Devon	Elizabeth	(171) 555-2282
314	Petit Auto	Dewey	Catherine	(02) 5554 67
415	Bavarian Collectables Imports, Co.	Donnermeyer	Michael	+49 89 61 08 9555
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555
344	CAF Imports	Fernandez	Jesus	+34 913 728 555
443	Feuer Online Stores, Inc	Feuer	Alexander	0342-555176
168	American Souvenirs Inc	Franco	Keith	2035557845

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```
SELECT * FROM RETAILPAYMENTS ORDER BY PAYMENTDATE DESC;
```

The above statement, when executed, selects and retrieves all the rows from the table "RETAILPAYMENTS" and also displays those rows in the output screen, in ascending order as per the "PAYMENTDATE" data of the table.

SNAPSHOT :-



DBS211NJ-Summer2022

0.653 seconds

Worksheet Query Builder

Script Output

Task completed in 0.653 seconds

122 rows selected.

CUSTOMERNUMBER	CHECKNUMBER	PAYMENTDATE	AMOUNT
353	HJ618252	05-06-09	46656.94
242	HR224331	05-06-03	12432.32
496	EUS31600	05-05-25	30253.75
323	AL493079	05-05-23	75820.13
233	BOFA23232	05-05-20	29870.38
175	CITI3434344	05-05-19	28500.78
141	DL460618	05-05-19	46895.48
398	JPMR4544	05-05-18	615.45
250	EQ12267	05-05-17	17928.09
209	BOAF82044	05-05-03	35157.75
452	HG635467	05-05-03	8807.12
276	OJ819725	05-04-30	29848.52
406	BJMPR4545	05-04-23	12190.85
448	FS299615	05-04-18	27966.54
124	ET64396	05-04-16	83598.04
462	ED203908	05-04-15	30293.77
148	ME497970	05-03-27	3516.04
141	IN446258	05-03-25	65071.26
141	JE105477	05-03-18	120166.58
321	LA556321	05-03-15	46781.66
186	AE192287	05-03-10	23602.9
124	AE215433	05-03-05	101244.59
219	BN17870	05-03-02	3452.75
333	NF959653	05-03-01	21432.31
119	NG94694	05-02-22	49523.67
311	DG336041	05-02-15	46770.52
398	AJ478695	05-02-14	33967.73
379	CA762595	05-02-12	28322.83
276	EM979878	05-02-09	27083.78
205	NM739638	05-02-06	39580.6
381	GB117430	05-02-03	14379.9

Line 2 Column 57 | Insert | Modified | Unix/Mac: LF

10) How many constraints does the RETAILPRODUCTS table have?

➔ There are in total 11 constraints, in the table "RETAILPRODUCTS".