

(Reference: SQL*Plus User's Guide and Reference Chapter 6 Formatting SQL*Plus Reports)

Learning Objective:

1. Formatting output

(Refer to the **OrderProcessingScenario.doc** ERD to understand how to join the tables correctly.)

(You will write similar queries as presented here for your TASK 7 in your practical assignment.)

Execute the **newData.txt** script to create more records in your database.

Setting the SQL*Plus configuration for reporting

When you run a SQL query, the output is a form of report. For example, let's say you would like to list customers and their order details. You might write:

The output of the query may look like this:

```
Run SQL Command Line
           F.order_no = L.order_no AND
                      = M.menu_id
           L.menu_id
     order by 1, \overline{3};
                                                                      E
   CUST_NO CUST_NAME
                                         ORDER_NO ORDER_DAT
DESCRIPTION
                                   QUANTITY
                                                  PRICE SUB_TOTAL
      1001 Ali
                                              1001 01-JUN-16
Cappuccino
                                          1
                                                                5.9
                                                    5.9
      1001 Ali
                                              1001 01-JUN-16
Sparkling Lime
                                          2
                                                                7.8
      1001 Ali
                                              1002 03-JUN-16
Sparkling Lime
                                          1
                                                                3.9
   CUST_NO CUST_NAME
                                         ORDER_NO ORDER_DAT
DESCRIPTION
                                                  PRICE SUB_TOTAL
                                   QUANTITY
                                             1002 03-JUN-16
11.95
      1001 Ali
Crab stick and Fish Fingers
                                          1
                                                              11.95
```

...looks messy and difficult to read.

PRACTICAL 6 – AGGREGATE FUNCTIONSDATABASE DEVELOPMENT AND APPLICATIONS



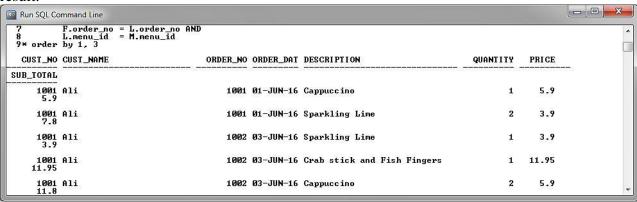
You need to format the output to make it into a presentable report.

Set the width and length of the report.

```
set linesize 120 -- default linesize is 80 set pagesize 30 - default pagesize is 14
```

(execute a SHOW ALL command to see all the default settings of SQL*Plus)

After setting the report width and height, execute the SQL statement again and observe the result.



Much better, but the total character count of each line still exceeds your linesize of 120. (Linesize 120 is the limit of the number of characters that can be printed across an A4 page in landscape orientation for font size 12)

Truncate the output of some data item to reduce the length of each row to within 120 characters.

```
column cust_name format A15
column description format A25 truncate
```

Now, execute the SQL statement again, the report should look presentable

CUST_NAME in **customer table** is defined as a string of 25 characters DESCRIPTION in **menu table** is defined as a string of 30 characters

Look at the report and decide if any other attributes need to be format further.



Adding a title to the report

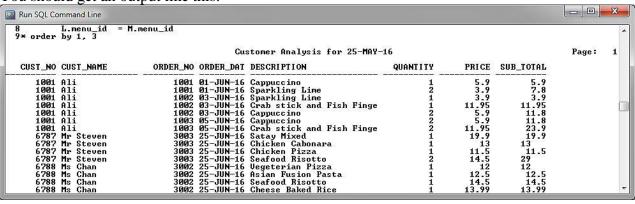
(Refer Chapter 6, Chapter 12 of the SQL*Plus User's Guide and Reference)

Adding a title for a report:

TTITLE CENTER 'Customer Analysis for ' _DATE - RIGHT 'Page:' FORMAT 999 SQL.PNO SKIP

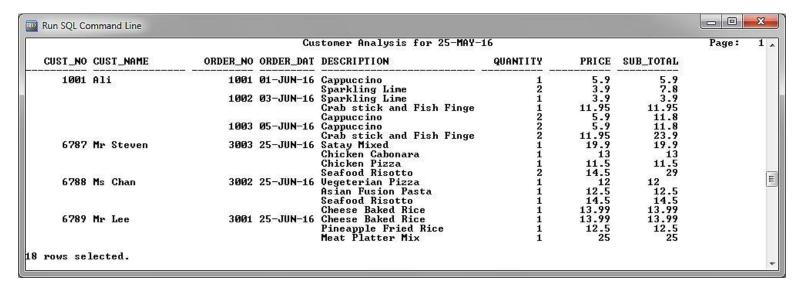
Execute the SQL query again.

You should get an output like this:



Now, read Chapter 6 (page 99 – page 107) and use the BREAK, COMPUTE command to enhance your reports further.

e.g. using BREAK





e.g. using BREAK and COMPUTE and other formatting

			Custo	mer Analysis for 25-MAY-16				Page:
UST_NO	CUST_NAME	Order No.	ORDER_DAT	DESCRIPTION	QUANTITY	PRICE	SUB_TOTAL	
1001	Ali	1001 *****		Cappuccino Sparkling Lime	1 2	\$5.90 \$3.90	\$5.90 \$7.80	
		Total					\$13.70	
		1002	03-JUN-16	Sparkling Lime Crab stick and Fish Finge Cappuccino	1 1 2	\$3.90 \$11.95 \$5.90	\$3.90 \$11.95 \$11.80	
		**************************************	******	Z 3300 ▲ ▲ 100 00 00 00 00 00 00 00 00 00 00 00 00			\$27.65	
				Cappuccino Crab stick and Fish Finge	2 2	\$5.90 \$11.95	\$11.80 \$23.90	
		**************************************	******				\$35.70	
6787	Mr Steven	3003	25-JUN-16	Satay Mixed Chicken Cabonara Chicken Pizza Seafood Risotto	1 1 1 2	\$19.90 \$13.00 \$11.50 \$14.50	\$19.90 \$13.00 \$11.50 \$29.00	
		**************************************	******	3041304		711.00	\$73.40	
6788	Ms Chan	3002	25-JUN-16	Vegeterian Pizza Asian Fusion Pasta Seafood Risotto	1 1 1	\$12.00 \$12.50 \$14.50	\$12.00 \$12.50 \$14.50	
			Custo	mer Analysis for 25-MAY-16				Page:
UST_NO	CUST_NAME	Order No.	ORDER_DAT	DESCRIPTION	QUANTITY	PRICE	SUB_TOTAL	
6788	Ms Chan	3002		Cheese Baked Rice	1	1 \$13.99 \$13	\$13.99	
		Total	~~~				\$52.99	
6789	Mr Lee			Cheese Baked Rice Pineapple Fried Rice Meat Platter Mix	1 1 1	\$13.99 \$12.50 \$25.00	\$13.99 \$12.50 \$25.00	
		**************************************	******				\$51.49	