

Lab Assignment for Week #8 (QACS - Oracle)
(Project Questions from Chapter 7 of the textbook)

(NOTE: Screen shot examples in these instructions may be different than your screen shot values)

Screen Shot #1A: Displaying the CUSTOMER table records

Display the records contained in the CUSTOMER table. To accomplish this, left click on the table name in the object panel. From the query results panel on the right, select the “Data” tab.

NOTE: Make changes to the Inert_Data SQL file, as outlined below, before you populate the CUSTOMER table

IMPORTANT – Ensure that the record which contains the name “Svane, Jack” has been changed to reflect your first and last name (DO NOT alter any other information regarding this record).

IMPORTANT – Ensure that all tables and views are visible in the object panel of the Oracle SQL Developer screen

The screenshot displays the Oracle SQL Developer interface. On the left, the 'Connections' pane shows the 'QAC Store' database. The 'Object Explorer' on the left lists various database objects, including tables like CUSTOMER, EMPLOYEE, ITEM, SALE, SALE_ITEM, and VENDOR. The main window shows the 'CUSTOMER' table selected, with the 'Data' tab active. The table contains 10 records, with the 7th record highlighted, showing 'Ilgun' as the last name and 'Abdullah' as the first name. The bottom status bar indicates the time is 6:49 PM on 11/9/2020.

CUSTOMERID	LASTNAME	FIRSTNAME	EMAILADDRESS	ENCRYPTEDPASSWORD	ADDRESS
1	Shire	Robert	Robert.Shire@somewhere.com	56gHjj8w	6225 Evanston Ave N
2	Goodyear	Katherine	Katherine.Goodyear@somewhere.com	fk3U0K24	7335 11th Ave NE
3	Bancroft	Chris	Chris.Bancroft@somewhere.com	98bpT4vw	12605 NE 6th Street
4	Griffith	John	John.Griffith@somewhere.com	mnBh88t4	335 Aloha Street
5	Tierney	Doris	Doris.Tierney@somewhere.com	as87PP3z	14510 NE 4th Street
6	Anderson	Donna	Donna.Anderson@elsewhere.com	34Gf7e0t	1410 Hillcrest Parkway
7	Ilgun	Abdullah	Jack.Svane@somewhere.com	wpv7FF9q	3211 42nd Street
8	Walsh	Denesha	Denesha.Walsh@somewhere.com	D7gb7T84	6712 24th Avenue NE
9	Enquist	Craig	Craig.Enquist@elsewhere.com	gg7ER53t	534 15th Street
10	Anderson	Rose	Rose.Anderson@elsewhere.com	vx67gH8W	6823 17th Ave NE

Screen Shot #1B: Displaying the CUSTOMER table details

Display the details of the CUSTOMER table. To accomplish this, left click on the view name in the object panel. From the query results panel on the right, select the “Details” tab.

IMPORTANT – Ensure that all tables and views, and function, are visible in the object panel of the Oracle SQL Developer screen

IMPORTANT – Ensure that the OWNER row is visible (you being the owner)

The screenshot displays the Oracle SQL Developer interface. On the left, the 'Connections' pane shows the 'QAC Store' connection. Under 'Tables (Filtered)', the 'CUSTOMER' table is selected. The main window shows the 'Details' tab for the 'CUSTOMER' table, displaying a list of table properties. The 'OWNER' property is highlighted, showing its value as 'SYSTEM'. The bottom status bar indicates the current context is 'QAC Store | SYSTEM | CUSTOMER'.

Name	Value
1 CREATED	05-NOV-20
2 LAST_DDL_TIME	05-NOV-20
3 OWNER	SYSTEM
4 TABLE_NAME	CUSTOMER
5 TABLESPACE_NAME	SYSTEM
6 CLUSTER_NAME	(null)
7 IOT_NAME	(null)
8 STATUS	VALID
9 PCT_FREE	10
10 PCT_USED	40
11 INI_TRANS	1
12 MAX_TRANS	255
13 INITIAL_EXTENT	65536
14 NEXT_EXTENT	1048576
15 MIN_EXTENTS	1
16 MAX_EXTENTS	2147483645
17 PCT_INCREASE	(null)
18 FREELISTS	1
19 FREELIST_GROUPS	1
20 LOGGING	YES
21 BACKED_UP	N
22 NUM_ROWS	10
23 BLOCKS	1
24 EMPTY_BLOCKS	0

Screen Shot #2A: Displaying view results

Question N on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the records produced by the view **SaleSummaryView**. To accomplish this, left click on the view name in the object panel. From the query results panel on the right, select the “Data” tab.

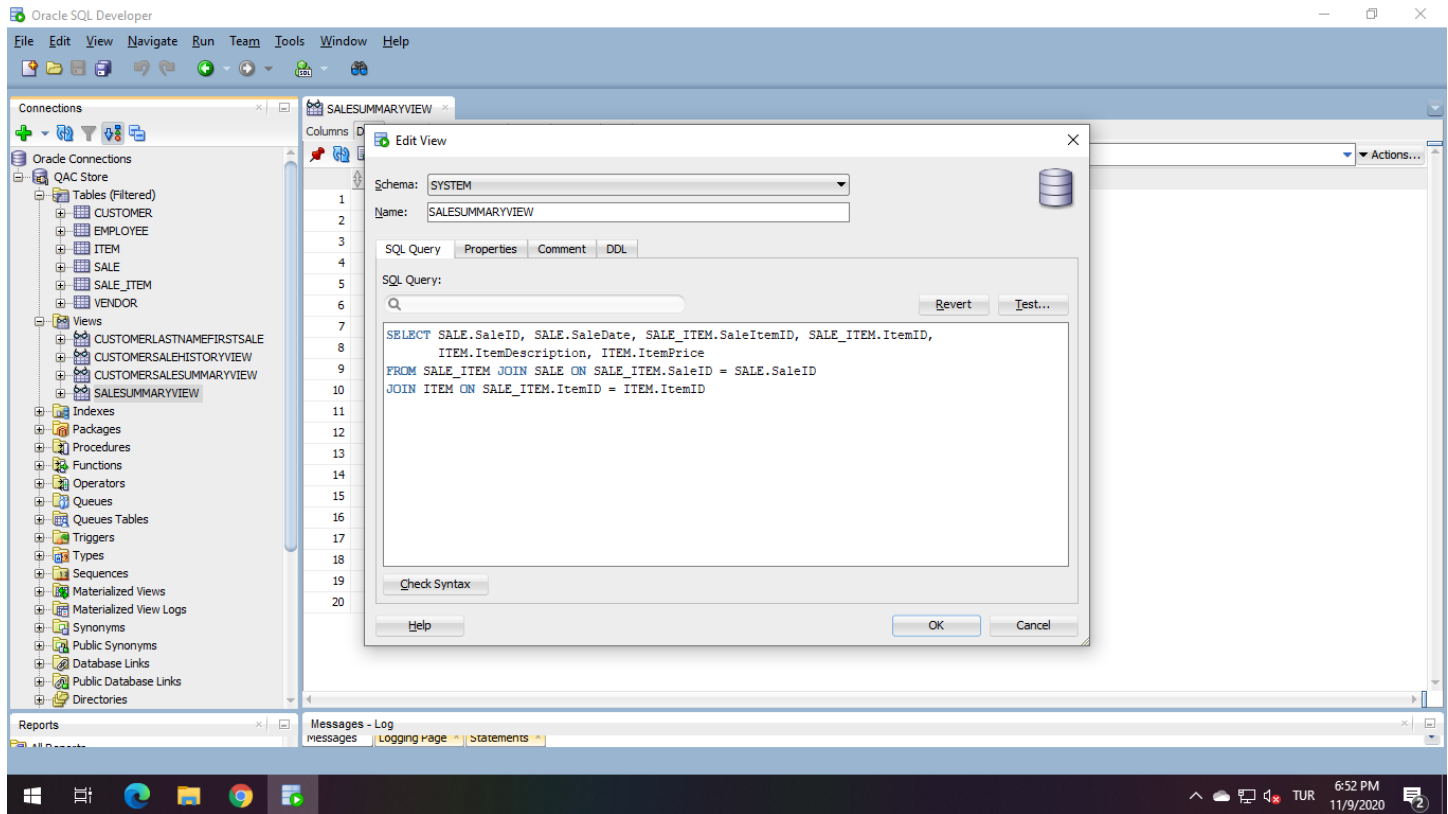
IMPORTANT – Ensure that all tables and views are visible in the object panel of the Oracle SQL Developer screen

The screenshot displays the Oracle SQL Developer interface. On the left, the 'Connections' pane shows the 'QAC Store' database with a tree view of objects. The 'Views' folder is expanded, and 'SALESUMMARYVIEW' is selected. The main window shows the 'Data' tab for 'SALESUMMARYVIEW', displaying a table with 20 rows of data. The columns are SALEID, SALEDATE, SALEITEMID, ITEMID, ITEMDESCRIPTION, and ITEMPRICE. The bottom status bar indicates the date and time as 11/9/2020, 6:51 PM.

	SALEID	SALEDATE	SALEITEMID	ITEMID	ITEMDESCRIPTION	ITEMPRICE
1	1	14-DEC-17	1	1	Antique Desk	3000
2	1	14-DEC-17	2	2	Antique Desk Chair	500
3	2	15-DEC-17	1	3	Dining Table Linens	1000
4	3	15-DEC-17	1	4	Candles	50
5	4	23-DEC-17	1	5	Candles	45
6	5	05-JAN-18	1	6	Desk Lamp	250
7	6	10-JAN-18	1	7	Dining Table Linens	750
8	7	12-JAN-18	1	8	Book Shelf	250
9	8	15-JAN-18	1	9	Antique Chair	1250
10	8	15-JAN-18	2	10	Antique Chair	1750
11	9	25-JAN-18	1	11	Antique Candle Holders	350
12	14	11-FEB-18	1	12	Antique Desk	3200
13	14	11-FEB-18	2	14	Antique Desk Chair	475
14	11	04-FEB-18	1	17	Desk Lamp	250
15	10	04-FEB-18	1	19	Antique Dining Table	5000
16	13	07-FEB-18	1	20	Antique Sideboard	4500
17	10	04-FEB-18	2	21	Dining Table Chairs	8500
18	10	04-FEB-18	3	22	Dining Table Linens	750
19	15	11-FEB-18	1	23	Dining Table Linens	800
20	12	07-FEB-18	1	24	Candles	50

Screen Shot #2B: Displaying the view SQL coding Question N on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the SQL coding, through the View GUI dialog box, of the view **SaleSummaryView**. To accomplish this, right click on the view name in the object panel and from the pop-up menu, select the Edit option.



Screen Shot #3A: Displaying view results

Question P on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the records produced by the view **CustomerSaleSummaryView**. To accomplish this, left click on the view name in the object panel. From the query results panel on the right, select the “Data” tab.

IMPORTANT – Ensure that all tables and views and function are visible in the object panel of the Oracle SQL Developer screen

The screenshot displays the Oracle SQL Developer interface. On the left, the 'Connections' pane shows the 'QAC Store' connection. Under 'Views', the 'CUSTOMERSALESUMMARYVIEW' is selected. The main window shows the 'Data' tab of the 'CUSTOMERSALESUMMARYVIEW' query results. The table contains 20 rows of data, with the 17th row highlighted. The bottom status bar shows the date and time as 6:53 PM on 11/9/2020.

	SALEID	SALEDATE	CUSTOMERID	LASTNAME	FIRSTNAME	SALEITEMID	ITEMID	ITEMDESCRIPTION	ITEMPRICE
1	1	14-DEC-17	1	Shire	Robert	1	1	1 Antique Desk	3000
2	1	14-DEC-17	1	Shire	Robert	2	2	2 Antique Desk Chair	500
3	2	15-DEC-17	2	Goodyear	Katherine	1	3	3 Dining Table Linens	1000
4	3	15-DEC-17	3	Bancroft	Chris	1	4	4 Candles	50
5	4	23-DEC-17	4	Griffith	John	1	5	5 Candles	45
6	5	05-JAN-18	1	Shire	Robert	1	6	6 Desk Lamp	250
7	6	10-JAN-18	5	Tierney	Doris	1	7	7 Dining Table Linens	750
8	7	12-JAN-18	6	Anderson	Donna	1	8	8 Book Shelf	250
9	8	15-JAN-18	2	Goodyear	Katherine	1	9	9 Antique Chair	1250
10	8	15-JAN-18	2	Goodyear	Katherine	2	10	10 Antique Chair	1750
11	9	25-JAN-18	5	Tierney	Doris	1	11	11 Antique Candle Holders	350
12	14	11-FEB-18	10	Anderson	Rose	1	12	12 Antique Desk	3200
13	14	11-FEB-18	10	Anderson	Rose	2	14	14 Antique Desk Chair	475
14	11	04-FEB-18	8	Walsh	Denesha	1	17	17 Desk Lamp	250
15	10	04-FEB-18	7	Ilgun	Abdullah	1	19	19 Antique Dining Table	5000
16	13	07-FEB-18	9	Enquist	Craig	1	20	20 Antique Sideboard	4500
17	10	04-FEB-18	7	Ilgun	Abdullah	2	21	21 Dining Table Chairs	8500
18	10	04-FEB-18	7	Ilgun	Abdullah	3	22	22 Dining Table Linens	750
19	15	11-FEB-18	2	Goodyear	Katherine	1	23	23 Dining Table Linens	800
20	12	07-FEB-18	5	Tierney	Doris	1	24	24 Candles	50

Screen Shot #3B: Displaying the view SQL coding Question P on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the SQL coding, through the View GUI dialog box, of the view **CustomerSaleSummaryView**. To accomplish this, right click on the view name in the object panel and from the pop-up menu, select the Edit option.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left displays the 'QAC Store' database structure. Under 'Views', the 'CUSTOMERSALESUMMARYVIEW' is selected. The 'Edit View' dialog box is open, showing the 'SQL Query' tab. The query is as follows:

```
SELECT SALE.SaleID, SALE.SaleDate, CUSTOMER.CustomerID, CUSTOMER.LastName,
       CUSTOMER.FirstName, SALE_ITEM.SaleItemID, SALE_ITEM.ItemID, ITEM.ItemDescription,
       ITEM.ItemPrice
FROM SALE_ITEM
JOIN SALE ON SALE_ITEM.SaleID = SALE.SaleID
JOIN ITEM ON SALE_ITEM.ItemID = ITEM.ItemID
JOIN CUSTOMER ON SALE.CustomerID = CUSTOMER.CustomerID
```

The dialog also shows the 'Schema' as 'SYSTEM' and the 'Name' as 'CUSTOMERSALESUMMARYVIEW'. The 'Check Syntax' button is visible. In the background, a data table is visible with columns 'ITEMDESCRIPTION' and 'ITEMPRICE'.

ITEMDESCRIPTION	ITEMPRICE
Antique Desk	3000
Antique Desk Chair	500
Dining Table Linens	1000
Candles	50
Candles	45
Desk Lamp	250
Dining Table Linens	750
Book Shelf	250
Antique Chair	1250
Antique Chair	1750
Antique Candle Holders	350
Antique Desk	3200
Antique Desk Chair	475
Desk Lamp	250
Antique Dining Table	5000
Antique Sideboard	4500
Dining Table Chairs	8500
Dining Table Linens	750
Dining Table Linens	800
Candles	50

Screen Shot #4A: Displaying view results

Question Q on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the records produced by the view **CustomerLastNameFirstSaleSummaryView**. To accomplish this, left click on the view name in the object panel. From the query results panel on the right, select the “Data” tab.

IMPORTANT – Ensure that all tables and views and function are visible in the object panel of the Oracle SQL Developer screen

IMPORTANT – Read additional instructions concerning this question in the lab assignment listed on the Brightspace site

IMPORTANT – Ensure that the concatenated customer name is listed as Last Name, followed by a comma and a space and then the first name (i.e. Shire, Robert)

The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' pane is open, showing the 'QAC Store' connection. Under 'Views', the view 'CUSTOMERLASTNAMEFIRSTSALE' is selected. The main window displays the 'Data' tab of the query results for this view. The results are shown in a table with 7 columns: SALEID, SALEDATE, CUSTOMERID, CUSTOMERNAME, SALEITEMID, ITEMID, ITEMDESCRIPTION, and ITEMPRICE. The table contains 20 rows of data, showing sales records for various customers and items.

SALEID	SALEDATE	CUSTOMERID	CUSTOMERNAME	SALEITEMID	ITEMID	ITEMDESCRIPTION	ITEMPRICE
1	114-DEC-17	1	Robert Shire	1	1	Antique Desk	3000
2	114-DEC-17	1	Robert Shire	2	2	Antique Desk Chair	500
3	215-DEC-17	2	Katherine Goodyear	1	3	Dining Table Linens	1000
4	315-DEC-17	3	Chris Bancroft	1	4	Candles	50
5	423-DEC-17	4	John Griffith	1	5	Candles	45
6	505-JAN-18	1	Robert Shire	1	6	Desk Lamp	250
7	610-JAN-18	5	Doris Tierney	1	7	Dining Table Linens	750
8	712-JAN-18	6	Donna Anderson	1	8	Book Shelf	250
9	815-JAN-18	2	Katherine Goodyear	1	9	Antique Chair	1250
10	815-JAN-18	2	Katherine Goodyear	2	10	Antique Chair	1750
11	925-JAN-18	5	Doris Tierney	1	11	Antique Candle Holders	350
12	1411-FEB-18	10	Rose Anderson	1	12	Antique Desk	3200
13	1411-FEB-18	10	Rose Anderson	2	14	Antique Desk Chair	475
14	1104-FEB-18	8	Denesha Walsh	1	17	Desk Lamp	250
15	1004-FEB-18	7	Abdullah Ilgun	1	19	Antique Dining Table	5000
16	1307-FEB-18	9	Craig Enquist	1	20	Antique Sideboard	4500
17	1004-FEB-18	7	Abdullah Ilgun	2	21	Dining Table Chairs	8500
18	1004-FEB-18	7	Abdullah Ilgun	3	22	Dining Table Linens	750
19	1511-FEB-18	2	Katherine Goodyear	1	23	Dining Table Linens	800
20	1207-FEB-18	5	Doris Tierney	1	24	Candles	50

Screen Shot #4B: Displaying the view SQL coding

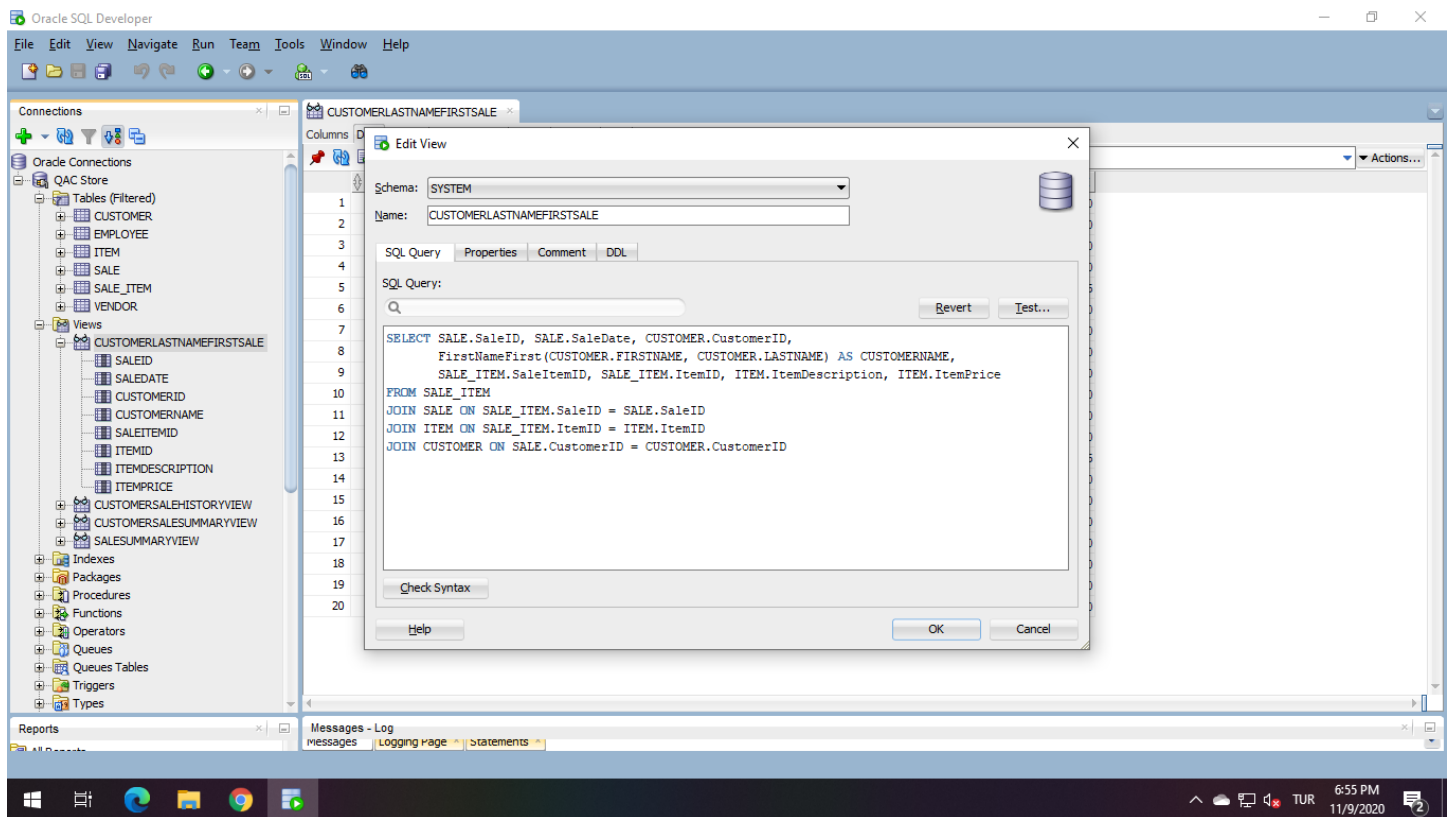
Question Q on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the SQL coding, through the View GUI dialog box. of the view **CustomerLastNameFirstSaleSummaryView**. To accomplish this, right click on the view name in the object panel and from the pop-up menu, select the Edit option.

IMPORTANT – Ensure that all tables and views and function are visible in the object panel of the Oracle SQL Developer screen

IMPORTANT – Read additional instructions concerning this question in the lab assignment listed on the Brightspace site

IMPORTANT – Ensure that the concatenated customer name is listed as Last Name, followed by a comma and a space and then the first name (i.e. Shire, Robert)



Screen Shot #5A: Displaying view results

Question R on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the records produced by the view **CustomerSaleHistoryView**. To accomplish this, left click on the view name in the object panel. From the query results panel on the right, select the “Data” tab.

NOTE: This view retrieves records from a pre-existing view (i.e. CustomerSaleSummaryView)

IMPORTANT – Ensure that all tables and views and function are visible in the object panel of the Oracle SQL Developer screen

IMPORTANT – Read additional instructions concerning this question in the lab assignment listed on the Brightspace site

The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' pane is open, showing the 'QAC Store' connection. Under 'Views', the 'CUSTOMERSALEHISTORYVIEW' is selected. The main pane displays the 'Data' tab for this view, showing a table with 15 rows and 7 columns: SALEID, SALEDATE, CUSTOMERID, LASTNAME, FIRSTNAME, SUMITEMPRICE, and AVGITEMPRICE. The data is as follows:

SALEID	SALEDATE	CUSTOMERID	LASTNAME	FIRSTNAME	SUMITEMPRICE	AVGITEMPRICE
1	4 23-DEC-17	4	Griffith	John	45	45
2	7 12-JAN-18	6	Anderson	Donna	250	250
3	10 04-FEB-18	7	Ilgun	Abdullah	14250	4750
4	3 15-DEC-17	3	Bancroft	Chris	50	50
5	13 07-FEB-18	9	Enquist	Craig	4500	4500
6	14 11-FEB-18	10	Anderson	Rose	3675	1837.5
7	15 11-FEB-18	2	Goodyear	Katherine	800	800
8	12 07-FEB-18	5	Tierney	Doris	50	50
9	6 10-JAN-18	5	Tierney	Doris	750	750
10	2 15-DEC-17	2	Goodyear	Katherine	1000	1000
11	11 04-FEB-18	8	Walsh	Denesha	250	250
12	5 05-JAN-18	1	Shire	Robert	250	250
13	1 14-DEC-17	1	Shire	Robert	3500	1750
14	8 15-JAN-18	2	Goodyear	Katherine	3000	1500
15	9 25-JAN-18	5	Tierney	Doris	350	350

The bottom of the screen shows the Windows taskbar with the time 6:56 PM on 11/9/2020.

Screen Shot #5B: Displaying the view SQL coding Question R on page 412 of Chapter 7 (from the textbook – 15th edition)

Display the SQL coding, through the View GUI dialog box, of the view **CustomerSaleHistoryView**. To accomplish this, right click on the view name in the object panel and from the pop-up menu, select the Edit option.

NOTE: This view retrieves records from a pre-existing view (i.e. CustomerSaleSummaryView)

IMPORTANT – Ensure that all tables and views and function are visible in the object panel of the Oracle SQL Developer screen

IMPORTANT – Read additional instructions concerning this question in the lab assignment listed on the Brightspace site

The screenshot displays the Oracle SQL Developer interface. On the left, the 'Connections' pane shows the 'QAC Store' database with a tree view of objects including Tables (CUSTOMER, EMPLOYEE, ITEM, SALE, SALE_ITEM, VENDOR), Views (CUSTOMERLASTNAMEFIRSTSALE, SALEID, SALEDATE, CUSTOMERID, CUSTOMERNAME, SALEITEMID, ITEMID, ITEMDESCRIPTION, CUSTOMERSALEHISTORYVIEW, CUSTOMERSALESUMMARYVIEW, SALESUMMARYVIEW), Indexes, Packages, Procedures, Functions, Operators, Queues, Queues Tables, Triggers, and Types. The 'CUSTOMERSALEHISTORYVIEW' view is selected. The 'Edit View' dialog box is open, showing the 'SQL Query' tab. The 'Schema' is set to 'SYSTEM' and the 'Name' is 'CUSTOMERSALEHISTORYVIEW'. The SQL query is as follows:

```
SELECT SALEID, SALEDATE, CUSTOMERID, LASTNAME, FIRSTNAME, SUM(ITEMPRICE) AS SUMITEMPRICE,
       AVG(ITEMPRICE) AS AVGITEMPRICE
FROM CUSTOMERSALESUMMARYVIEW
GROUP BY SALEID, CUSTOMERID, LASTNAME, FIRSTNAME, SALEDATE
```

The 'Check Syntax' button is visible at the bottom of the dialog. In the background, a table of data is visible with columns 'ITEMPRICE' and 'SALEDATE'. The data includes values like 45, 250, 4750, 50, 4500, 1837.5, 900, 50, 750, 1000, 250, 250, 1750, 1500, and 350.