Database Design - 2023S

Student ID:

Student Name:

Practical Activity#8 - Sub Queries / Muliple Table Queries using Where

Perform the following operations using ORACLE /ORACLE live and provide relevant screen shots in each case

Login Name / Connection Must Be visible in all screens

Create the tables and populate with data using the script

But modify all the tables with your student number last 3 digits

e.g Customer → Customer_697 (replace 697 with your student number)

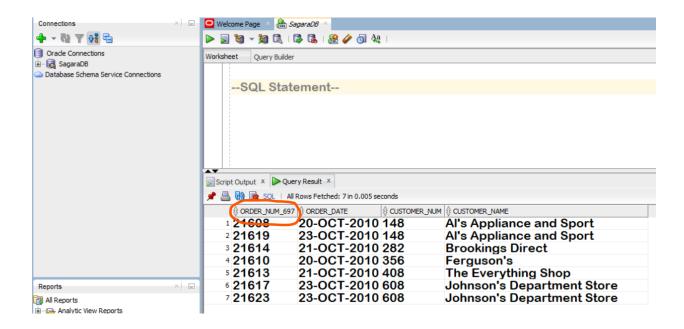
Change the date format accoding to the using alter session command

Use Column alias for first column e.g order_id -> order_id_697 in all SQL statements

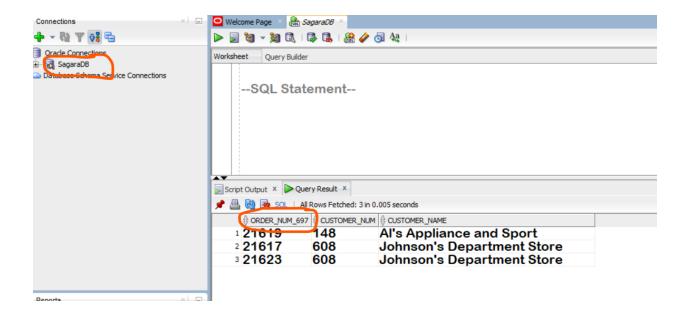
Explain the SQL Statement in your own words

Practical Activity#1

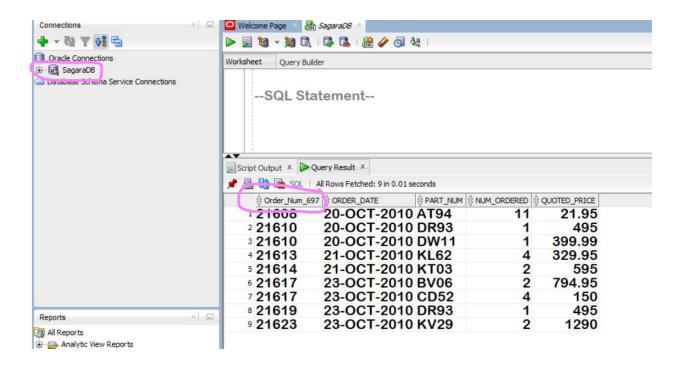
1. For each order, list the order number and order date along with the number and name of the customer that placed the order.



2. For each order placed on October 23, 2010, list the order number along with the number and name of the customer that placed the order.

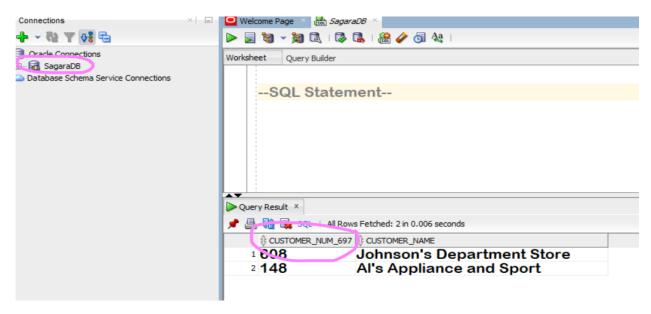


3. For each order, list the order number, order date, part number, number of units ordered, and quoted price for each order line that makes up the order. (Hint :order , orderline)

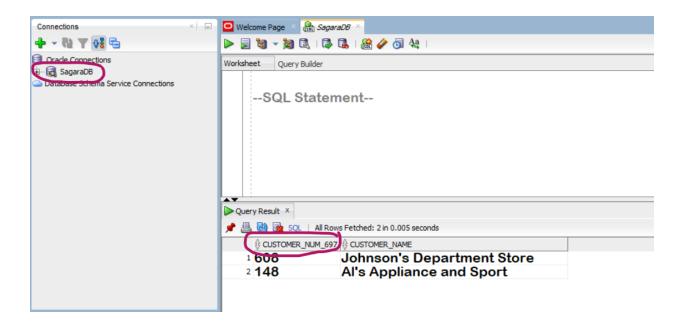


Practical Activity#2

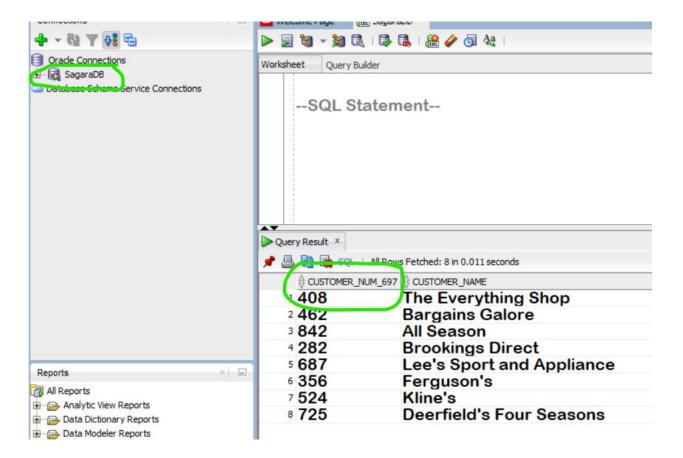
4. Use the IN operator to find the number and name of each customer that placed an order on October 23, 2010.



5. Repeat Exercise 4, but this time use the EXISTS operator in your answer.

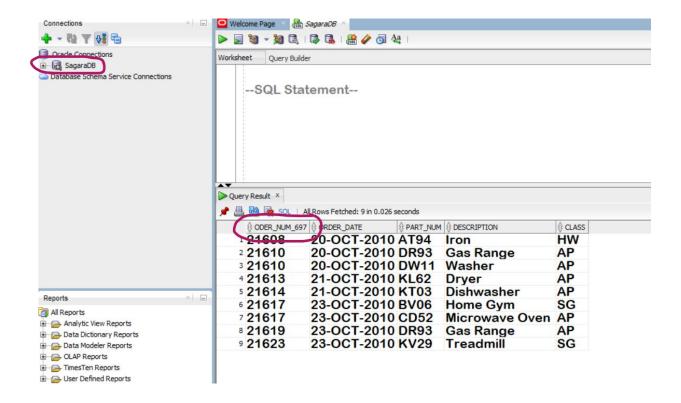


6. Find the number and name of each customer that did not place an order on October 23, 2010.

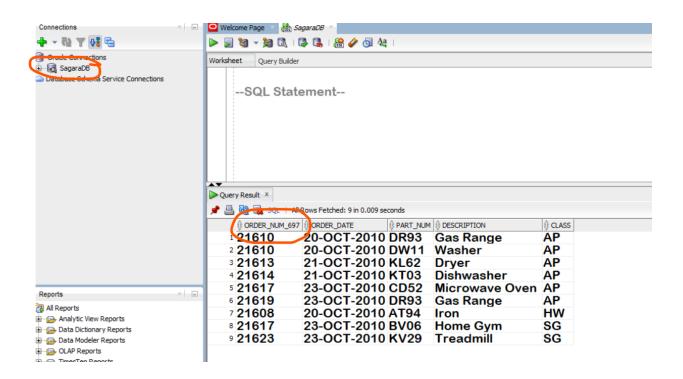


Practical Activity#3

7. For each order, list the order number, order date, part number, part description, and item class for each part that makes up the order.

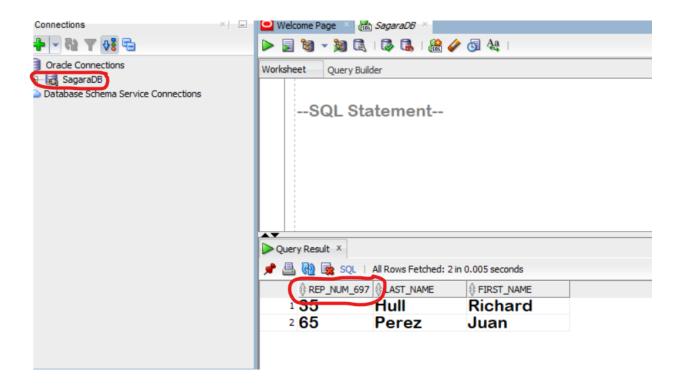


8. Repeat Exercise 7, but this time order the rows by item class and then by order number.

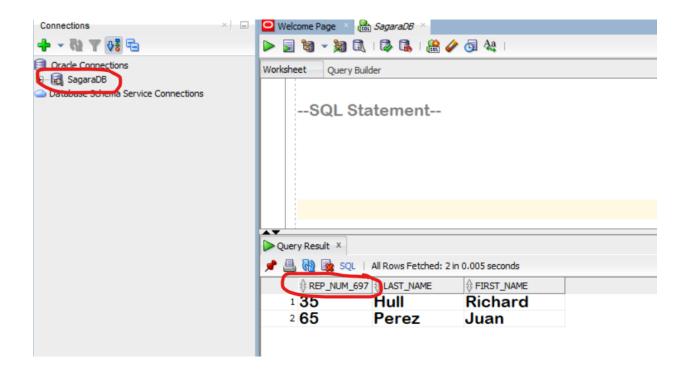


Practical Activity#4

9. Use a subquery to find the rep number, last name, and first name of each sales rep who represents at least one customer with a credit limit of \$10,000. List each sales rep only once in the results.



10. Repeat Exercise 9, but this time do not use a subquery.



Database Structure

REP

	REP_ NUM	LAST_ NAME		STREET	CITY	STATE	ZIP	COMMISSION	RATE
	20	Kaiser	Valerie	624 Randall	Grove	FL	33321	\$20,542.50	0.05
I	35	Hull	Richard	532 Jackson	Sheldon	FL	33553	\$39,216.00	0.07
ı	65	Perez	Juan	1626 Taylor	Fillmore	FL	33336	\$23,487.00	0.05

CUSTOMER

CUSTOMER_ NUM	CUSTOMER_ NAME	STREET	CITY	STATE	ZIP	BALANCE	CREDIT_ LIMIT	REP_ NUM
148	Al's Appliance and Sport	2837 Greenway	Fillmore	FL	33336	\$6,550.00	\$7,500.00	20
282	Brookings Direct	3827 Devon	Grove	FL	33321	\$431.50	\$10,000.00	35
356	Ferguson's	382 Wildwood	Northfield	FL	33146	\$5,785.00	\$7,500.00	65
408	The Everything Shop	1828 Raven	Crystal	FL	33503	\$5,285.25	\$5,000.00	35
462	Bargains Galore	3829 Central	Grove	FL	33321	\$3,412.00	\$10,000.00	65
524	Kline's	838 Ridgeland	Fillmore	FL	33336	\$12,762.00	\$15,000.00	20
608	Johnson's Department Store	372 Oxford	Sheldon	FL	33553	\$2,106.00	\$10,000.00	65
687	Lee's Sport and Appliance	282 Evergreen	Altonville	FL	32543	\$2,851.00	\$5,000.00	35
725	Deerfield's Four Seasons	282 Columbia	Sheldon	FL	33553	\$248.00	\$7,500.00	35
842	All Season	28 Lakeview	Grove	FL	33321	\$8,221.00	\$7,500.00	20

ORDERS

ORDER_ NUM	ORDER_ DATE	CUSTOMER_ NUM
21608	10/20/2010	148
21610	10/20/2010	356
21613	10/21/2010	408
21614	10/21/2010	282
21617	10/23/2010	608
21619	10/23/2010	148
21623	10/23/2010	608

ORDER_LINE

ORDER_NUM	PART_NUM	NUM_ORDERED	QUOTED_PRICE
21608	AT94	11	\$21.95
21610	DR93	1	\$495.00
21610	DW11	1	\$399.99
21613	KL62	4	\$329.95
21614	KT03	2	\$595.00
21617	BV06	2	\$794.95
21617	CD52	4	\$150.00
21619	DR93	1	\$495.00
21623	KV29	2	\$1,290.00

PART

PART_NUM	DESCRIPTION	ON_HAND	CLASS	WAREHOUSE	PRICE
AT94	Iron	50	HW	3	\$24.95
BV06	Home Gym	45	SG	2	\$794.95
CD52	Microwave Oven	32	AP	1	\$165.00
DL71	Cordless Drill	21	HW	3	\$129.95
DR93	Gas Range	8	AP	2	\$495.00
DW11	Washer	12	AP	3	\$399.99
FD21	Stand Mixer	22	HW	3	\$159.95
KL62	Dryer	12	AP	1	\$349.95
KT03	Dishwasher	8	AP	3	\$595.00
KV29	Treadmill	9	SG	2	\$1,390.00