CIS-310 Database Design Small Group Activity #8 30 points

Names of group members:	
0 1	

- 1. Get in touch with your group. (See Groups folder on Blackboard.)
- 2. Discuss and complete the assignment together via E-mail, Discussion Forum, Blackboard Collaborate Ultra, and/or MS Teams.
- 3. Choose a recorder to prepare the final copy (one per group) and submit it via the Blackboard Assignments/Small Group Activities folder to the instructor.
- 4. Be sure all group members' names are on final copy. Do <u>not</u> add names of your group classmates who did not participate in the assignment.

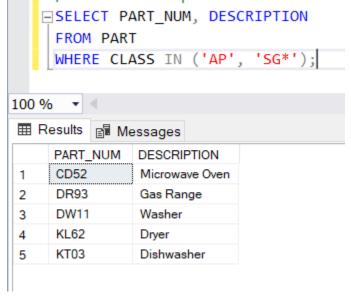
After you have successfully completed Assignments 4 and 7 as well as Small Group Activity 7, the Premiere Products database containing five tables (REP, CUSTOMER, ORDERS, PART, and ORDER_LINE) populated with the data and the entity relationship diagram (ERD) should already be in your SQL Server account. You will find the five database tables at the end of this document.

Using the Premiere Products database write the SQL queries for the following ten problems. Discuss each of the ten problems with your group, write a query for each problem, and run the query on SQL server. Save the ten queries in a single file or in ten separate files in your account on J drive. Every group member should run each of the ten queries and save them in his/her account on J drive. Paste your queries and the outputs they generated after each of the ten problems.

After you paste the queries and the output they produced save this document as Word or pdf file named SGA8_Groupxx, where xx stand for the group number and submit via Blackboard. See the Assignments/Small Group Activities/Small Group Activity 8 folder.

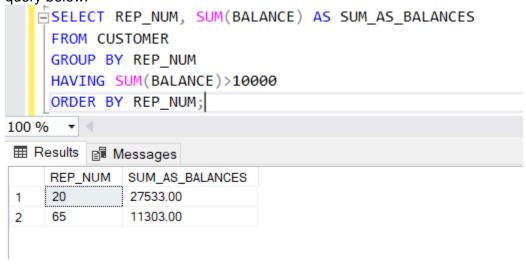
Problem 1.

Use the IN operator to list the part number and part description of each part in item class AP or SG. Run the query on SQL server. Paste the query and the output from the query below.



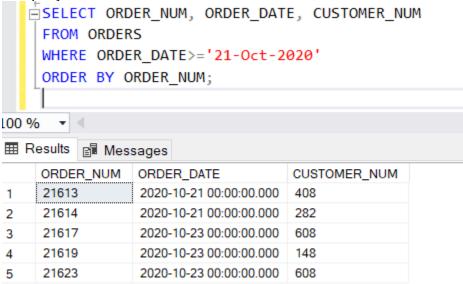
Problem 2.

List the sales rep numbers and sum of the balances of all customers for each sales rep, but restrict the output to those sales reps for whom the sum is more than \$10,000. Name the unnamed column as SUM_OF_BALANCES. Order and group the results by sales rep number. Use the HAVING clause. Run the query on SQL server. Paste the query and the output from the query below.



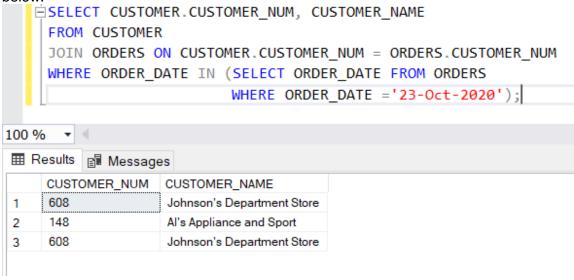
Problem 3.

List the order number, order date, customer number, and customer name for every customer that placed an order. Restrict the output to the orders placed on or after Oct 21 2020. Order the rows by the order number. Run the query on SQL server. Paste the query and the output from the query below.



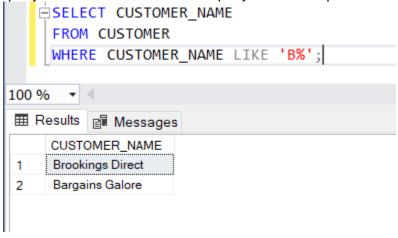
Problem 4.

Use the IN operator to find the number and name of each customer that placed an order on October 23, 2020. Run the query on SQL server. Paste the query and the output from the query below.



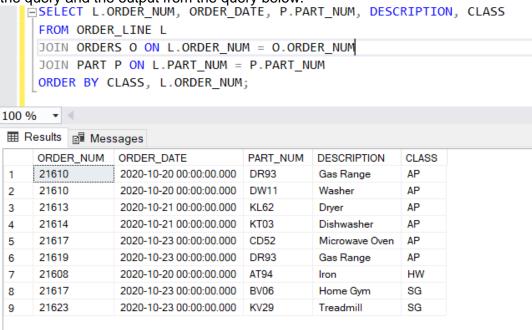
Problem 5.

Find the number and name of each customer whose name begins with the letter "B". Run the query on SQL server. Paste the query and the output from the query below.



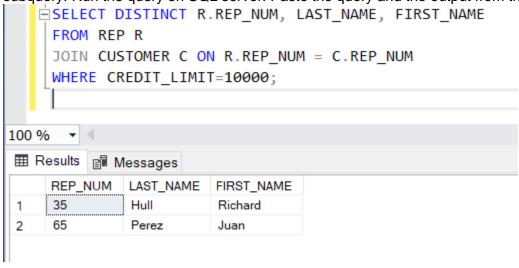
Problem 6.

For each order, list the order number, order date, part number, part description, and item class for each part that makes up the order. Order the rows by item class and then by order number. (Note that you need to pull the data from several tables.) Run the query on SQL server. Paste the query and the output from the query below.



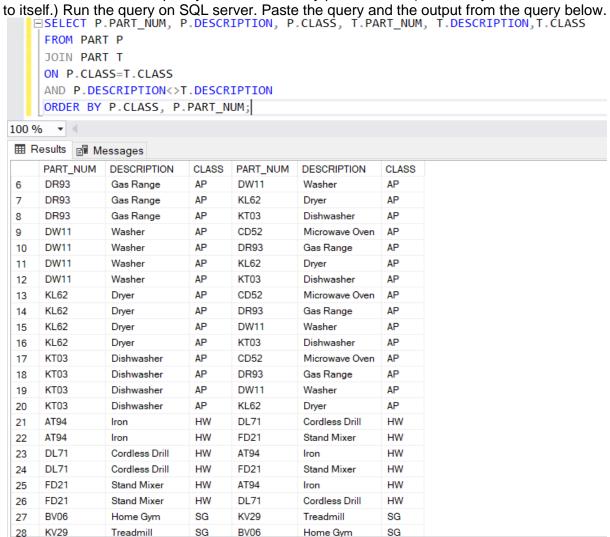
Problem 7.

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. Do not use a subquery. Run the guery on SQL server. Paste the guery and the output from the guery below.



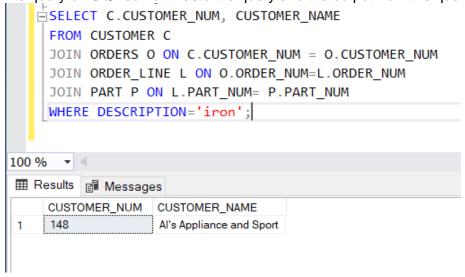
Problem 8.

List the part number, part description, and item class for each pair of parts that are in the same item class. Order the output by class and then by part number. (Note that you need to link PART to itself.) Run the query on SQL server. Paste the query and the output from the query below



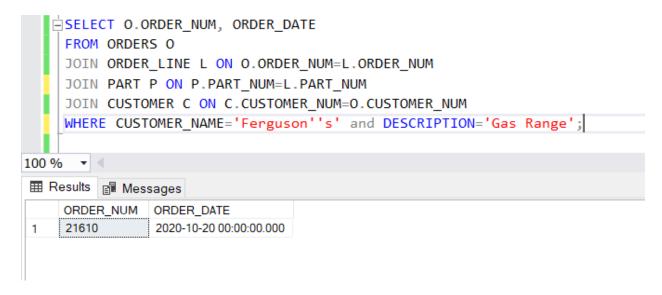
Problem 9.

Find the number and name of each customer that currently has an order on file for an Iron. Run the guery on SQL server. Paste the guery and the output from the guery below.



Problem 10.

List the order number and order date for each order that was placed by Ferguson's and that contains an order line for a Gas Range. (Hint: Use the string literal as 'Ferguson's' for comparison.) Run the query on SQL server. Paste the query and the output from the query below.



PREMIERE PRODUCTS SCHEMA

TABLE REP

	REP_NUM	LAST_NAME	FIRST_NAME	STREET	CITY	STATE	ZIP	COMMISSION	RATE
1	20	Kaiser	Valerie	624 Randall	Grove	FL	33321	20542.50	0.05
2	35	Hull	Richard	532 Jackson	Sheldon	FL	33553	39216.00	0.07
3	65	Perez	Juan	1626 Taylor	Fillmore	FL	33336	23487.00	0.05

TABLE CUSTOMER

	CUSTOMER_NUM	CUSTOMER_NAME	STREET	CITY	STATE	ZIP	BALANCE	CREDIT_LIMIT	REP_NUM
1	148	Al's Appliance and Sport	2837 Greenway	Fillmore	FL	33336	6550.00	7500.00	20
2	282	Brookings Direct	3827 Devon	Grove	FL	33321	431.50	10000.00	35
3	356	Ferguson's	382 Wildwood	Northfield	FL	33146	5785.00	7500.00	65
4	408	The Everything Shop	1828 Raven	Crystal	FL	33503	5285.25	5000.00	35
5	462	Bargains Galore	3829 Central	Grove	FL	33321	3412.00	10000.00	65
6	524	Kline's	838 Ridgeland	Fillmore	FL	33336	12762.00	15000.00	20
7	608	Johnson's Department Store	372 Oxford	Sheldon	FL	33553	2106.00	10000.00	65
8	687	Lee's Sport and Appliance	282 Evergreen	Altonville	FL	32543	2851.00	5000.00	35
9	725	Deerfield's Four Seasons	282 Columbia	Sheldon	FL	33553	248.00	7500.00	35
10	842	All Season	28 Lakeview	Grove	FL	33321	8221.00	7500.00	20

TABLE ORDERS

	ORDER_NUM	ORDER_DATE	CUSTOMER_NUM
1	21608	2020-10-20 00:00:00.000	148
2	21610	2020-10-20 00:00:00.000	356
3	21613	2020-10-21 00:00:00.000	408
4	21614	2020-10-21 00:00:00.000	282
5	21617	2020-10-23 00:00:00.000	608
6	21619	2020-10-23 00:00:00.000	148
7	21623	2020-10-23 00:00:00.000	608

TABLE PART

	PART_NUM	DESCRIPTION	ON_HAND	CLASS	WAREHOUSE	PRICE
1	AT94	Iron	50	HW	3	24.95
2	BV06	Home Gym	45	SG	2	794.95
3	CD52	Microwave Oven	32	AP	1	165.00
4	DL71	Cordless Drill	21	HW	3	129.95
5	DR93	Gas Range	8	AP	2	495.00
6	DW11	Washer	12	AP	3	399.99
7	FD21	Stand Mixer	22	HW	3	159.95
8	KL62	Dryer	12	AP	1	349.95
9	KT03	Dishwasher	8	AP	3	595.00
10	KV29	Treadmill	9	SG	2	1390.00

TABLE ORDER_LINE

	ORDER_NUM	PART_NUM	NUM_ORDERED	QUOTED_PRICE
1	21608	AT94	11	21.95
2	21610	DR93	1	495.00
3	21610	DW11	1	399.99
4	21613	KL62	4	329.95
5	21614	KT03	2	595.00
6	21617	BV06	2	794.95
7	21617	CD52	4	150.00
8	21619	DR93	1	495.00
9	21623	KV29	2	1290.00