Assignment 2

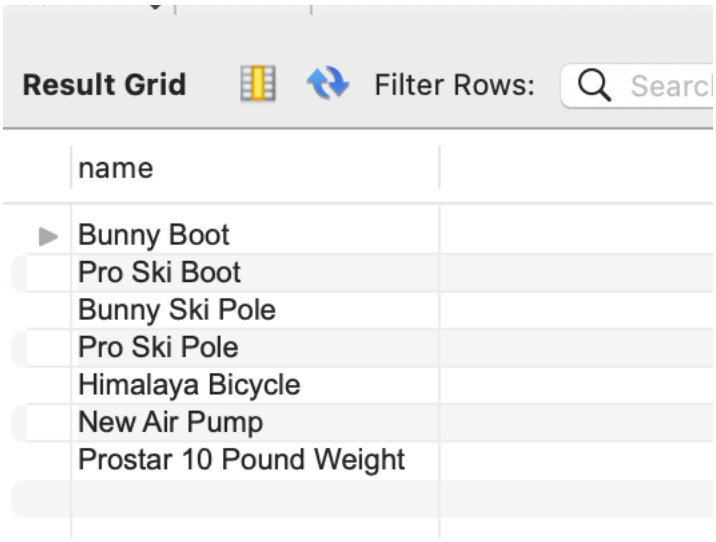
Note:

- Use the same database for Assignment 1 to complete Assignment 2.
- For each question, **type your SQL statements** and provide the **screenshots of the Result Grids**.
- Name the file as LAST_FIRST_HW2. Submit a PDF file via eLC.

This assignment is based on the tables created using the Sports.sql file.

JOINS

1. **Write a query to display the names of all products in the order with ord_id 100.**
   SELECT name FROM s_product JOIN s_item ON s_product.s_product_id = s_item.product_id WHERE ord_id = 100;



2. **Write a query to display each employee's last name and first name in one column as "Lastname, Firstname", department id, and the name of the department. Sort the result by department name and then employees' last name and first name in ascending order.**

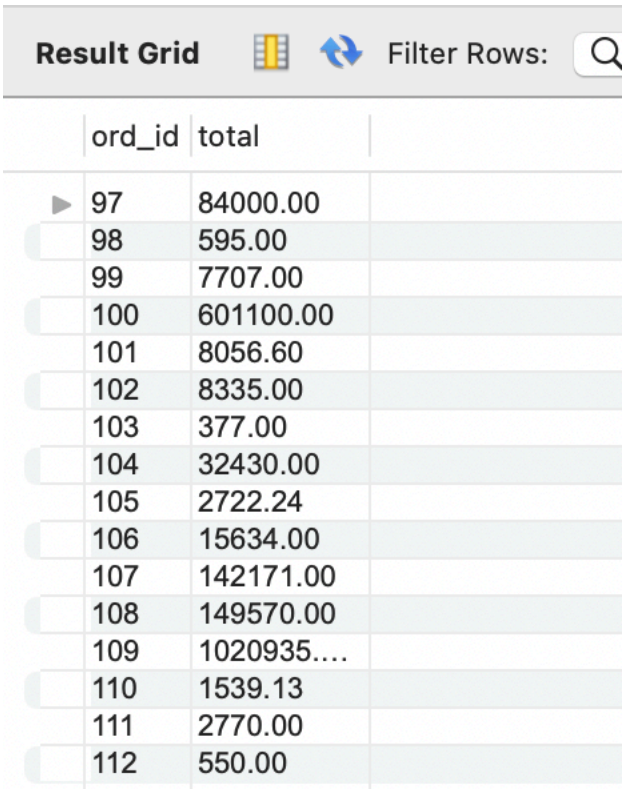
   SELECT CONCAT(last_name, first_name) as employeename, s_emp.dept_id, s_dept.name FROM s_emp INNER JOIN s_dept ON s_emp.dept_id=s_dept.s_dept_id ORDER BY name, employeename ASC;

Result Grid Filter Rows: Search

employeename	dept_id	name
RopeburnAudry	50	Administration
VelasquezCarmen	50	Administration
Quick-To-SeeMark	10	Finance
BiriBen	43	Operations
CatchpoleAntoinette	44	Operations
ChangEddie	44	Operations
DancsBela	45	Operations
HavelMarta	45	Operations
MaduroElena	41	Operations
MarkarianAlexander	43	Operations
MenchuRoberta	42	Operations
NewmanChad	43	Operations
NgaoLaDoris	41	Operations
NozakiAkira	42	Operations
PatelVikram	42	Operations
SchwartzSylvie	45	Operations
SmithGeorge	41	Operations
UrguhartMolly	41	Operations
DumasAndre	35	Sales
GiljumHenry	32	Sales
MageeColin	31	Sales
NagayamaMidori	31	Sales
NguyenMai	34	Sales
PatelRadha	34	Sales
SedeghiYasmin	33	Sales

3. **Write a query to display the order_id, the total values of items, and the number of distinct items in the order for all orders.**

```
SELECT DISTINCT ord_id, total FROM s_item, s_ord
WHERE s_ord.s_ord_id=s_item.ord_id;
```

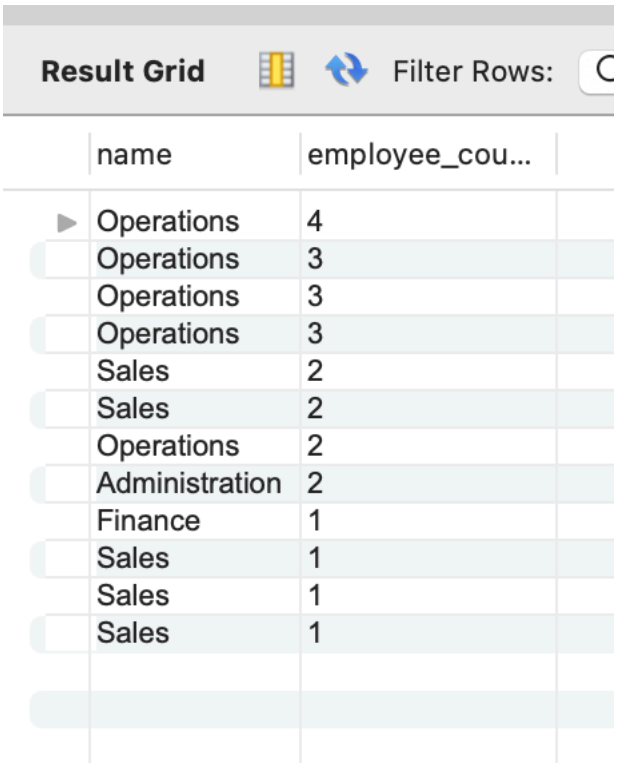


Result Grid Filter Rows:

ord_id	total
97	84000.00
98	595.00
99	7707.00
100	601100.00
101	8056.60
102	8335.00
103	377.00
104	32430.00
105	2722.24
106	15634.00
107	142171.00
108	149570.00
109	1020935....
110	1539.13
111	2770.00
112	550.00

4. **Display the department name and the number of employees it has. Sort the result by the number of employees in descending order. Explore why there are duplicate departments in the results and provide your answer below your query (s_emp and s_dept tables).**

```
SELECT s_dept.name, COUNT(DISTINCT(s_emp_id)) as employee_count
FROM s_emp, s_dept
WHERE s_dept.s_dept_id = s_emp.dept_id
GROUP BY s_dept_id
ORDER BY employee_count DESC;
```



Result Grid Filter Rows:

name	employee_cou...
Operations	4
Operations	3
Operations	3
Operations	3
Sales	2
Sales	2
Operations	2
Administration	2
Finance	1
Sales	1
Sales	1
Sales	1

5. **Display the department name, the number of employees it has, and the percentage of its employees to all employees. Round the percentage number to one decimal place with a % sign at the end. Sort the result by the number of employees in descending order (s_emp and s_dept tables).**

```
Select dept.name, count(emp.s_emp_id) ,
CONCAT(FORMAT((count(emp.s_emp_id)/(SELECT COUNT(s_emp_id) FROM
s_emp))*100,1),"%")
FROM s_dept AS dept,s_emp AS emp
where emp.dept_id=dept.s_dept_id
GROUP BY dept.s_dept_id
ORDER BY count(emp.s_emp_id) DESC;
```

Result Grid | Filter Rows: Search | Export:

name	count(emp.s_emp_...	CONCAT(FORMAT((count(emp.s_emp_id)/(S...
Operations	4	16.0%
Operations	3	12.0%
Operations	3	12.0%
Operations	3	12.0%
Sales	2	8.0%
Sales	2	8.0%
Operations	2	8.0%
Administration	2	8.0%
Finance	1	4.0%
Sales	1	4.0%
Sales	1	4.0%
Sales	1	4.0%

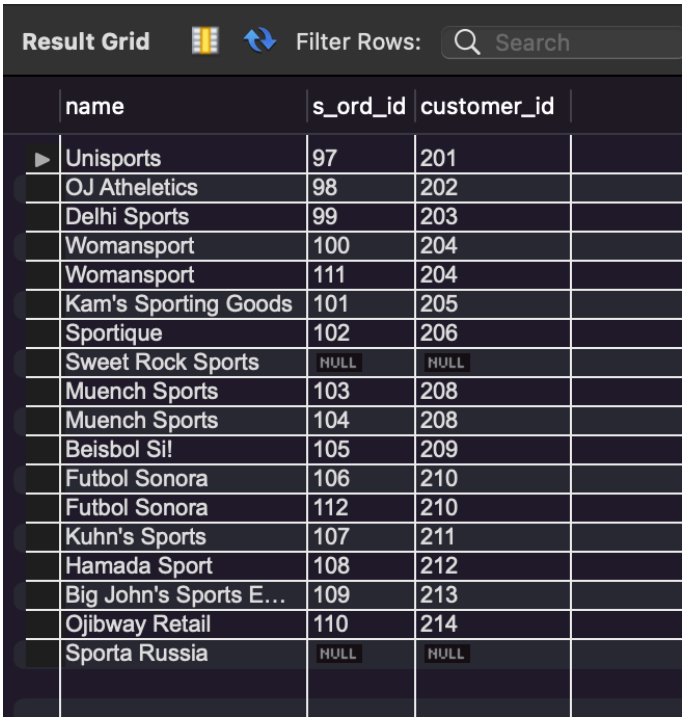
6. **Display the order id, customer id, and customer name of all orders (s_customer and s_ord tables).**
SELECT s_customer.name, s_ord.s_ord_id, s_ord.customer_id FROM s_ord
INNER JOIN s_customer ON s_ord.customer_id=s_customer.s_customer_id;

Result Grid | Filter Rows: Search

name	s_ord_id	customer_id
Unisports	97	201
OJ Atheletics	98	202
Delhi Sports	99	203
Womansport	100	204
Womansport	111	204
Kam's Sporting Goods	101	205
Sportique	102	206
Muench Sports	103	208
Muench Sports	104	208
Beisbol Si!	105	209
Futbol Sonora	106	210
Futbol Sonora	112	210
Kuhn's Sports	107	211
Hamada Sport	108	212
Big John's Sports E...	109	213
Ojibway Retail	110	214

7. **Write a query to display the name of all customers, and order id, customer id, and customer name of the orders that they placed. Explain the difference between Q6 and Q7.**

```
SELECT s_customer.name, s_ord.s_ord_id, s_ord.customer_id
FROM s_ord
RIGHT OUTER JOIN s_customer ON s_ord.customer_id=s_customer_id;
```

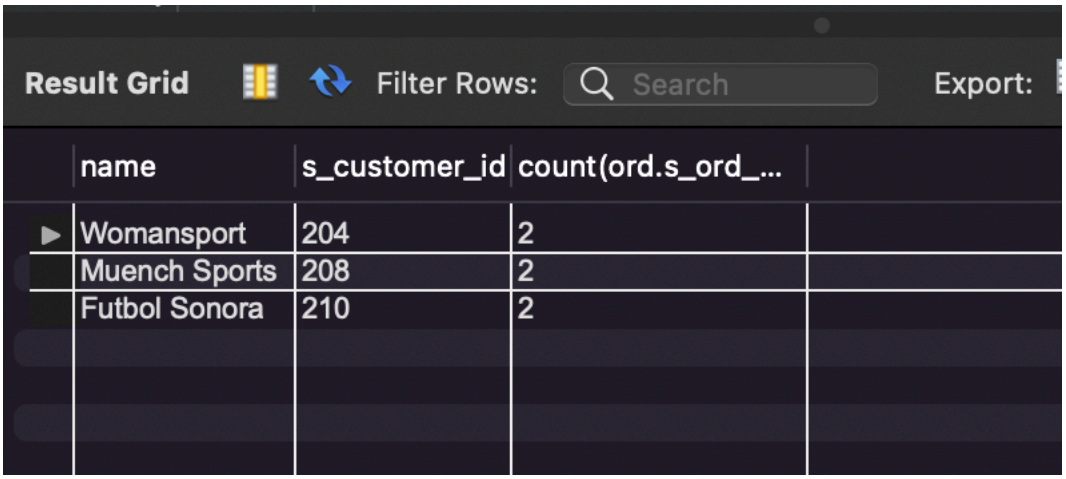


Result Grid Filter Rows: Search

name	s_ord_id	customer_id
Unisports	97	201
OJ Atheletics	98	202
Delhi Sports	99	203
Womansport	100	204
Womansport	111	204
Kam's Sporting Goods	101	205
Sportique	102	206
Sweet Rock Sports	NULL	NULL
Muench Sports	103	208
Muench Sports	104	208
Beisbol Si!	105	209
Futbol Sonora	106	210
Futbol Sonora	112	210
Kuhn's Sports	107	211
Hamada Sport	108	212
Big John's Sports E...	109	213
Ojibway Retail	110	214
Sporta Russia	NULL	NULL

8. **Write a query to display the customer id, customer name, and the number of orders that the customers placed for the customers who placed more than 1 order. Sort the results by customer name in descending order.**

```
SELECT cust.name ,cust.s_customer_id , count(ord.s_ord_id)
FROM s_ord ord join s_customer cust  WHERE ord.customer_id=cust.s_customer_id
GROUP BY cust.s_customer_id
HAVING count(ord.s_ord_id) > '1'   ORDER BY cust.name DESC;
```

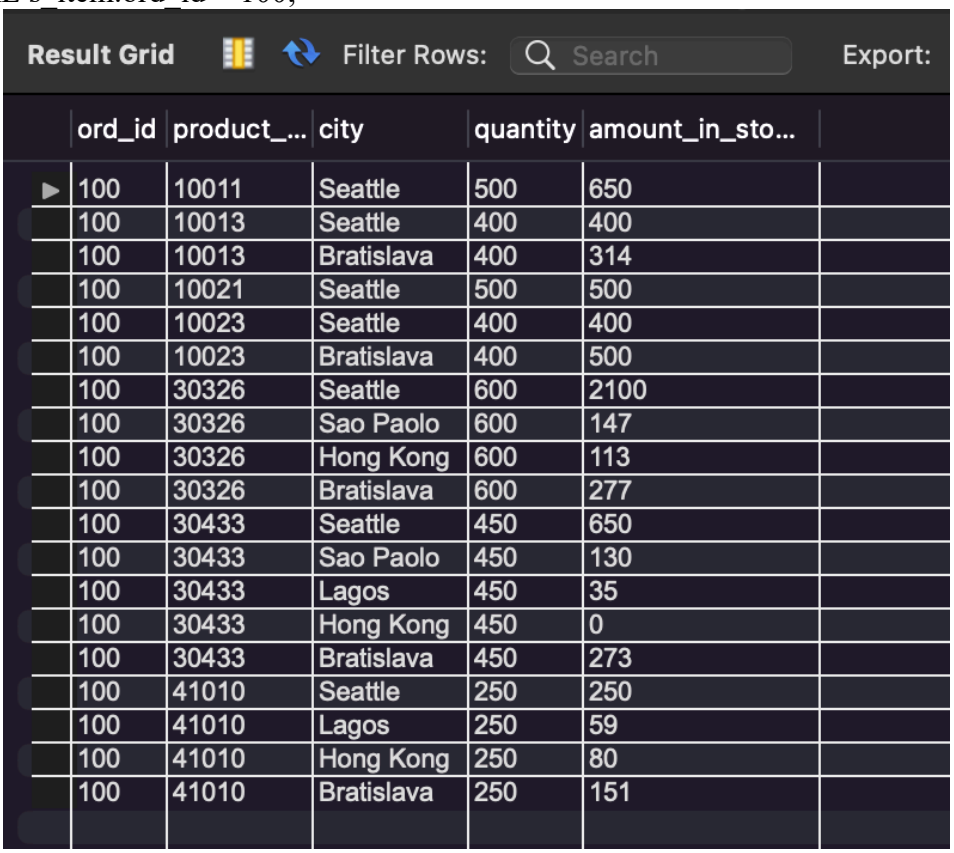


Result Grid | Filter Rows: Search | Export:

name	s_customer_id	count(ord.s_ord_...
Womansport	204	2
Muench Sports	208	2
Futbol Sonora	210	2

9. **Display order_id, product_id, quantity, the warehouse location (city only) of the product, and amount in stock for all products in the order with ord_id 100.**

```
SELECT s_item.ord_id, s_item.product_id, s_warehouse.city,
s_item.quantity,s_inventory.amount_in_stock
FROM s_item  JOIN s_inventory
ON s_item.product_id= s_inventory.product_id JOIN s_warehouse ON
s_inventory.warehouse_id=s_warehouse.s_warehouse_id
WHERE s_item.ord_id = 100;
```



Result Grid | Filter Rows: Search | Export:

ord_id	product_...	city	quantity	amount_in_sto...
100	10011	Seattle	500	650
100	10013	Seattle	400	400
100	10013	Bratislava	400	314
100	10021	Seattle	500	500
100	10023	Seattle	400	400
100	10023	Bratislava	400	500
100	30326	Seattle	600	2100
100	30326	Sao Paolo	600	147
100	30326	Hong Kong	600	113
100	30326	Bratislava	600	277
100	30433	Seattle	450	650
100	30433	Sao Paolo	450	130
100	30433	Lagos	450	35
100	30433	Hong Kong	450	0
100	30433	Bratislava	450	273
100	41010	Seattle	250	250
100	41010	Lagos	250	59
100	41010	Hong Kong	250	80
100	41010	Bratislava	250	151

Hints:

1. 7 rows.
2. 25 rows.
3. 16 rows.
4. 12 rows.
5. 12 rows.
6. 16 rows.
7. 18 rows.
8. 3 rows.
9. 19 rows.