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Database Management Systems Mini project

Part-I

Dr. Mahmoud Hasan Saheb

Aram Al-Shahateet (221020)

شعبة (٢)

Lames klawi (221049)

شعبة (١)

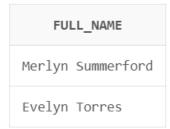
1- List the customers' names and emails for customers with ID less than 7.

```
1 v SELECT FULL_NAME, EMAIL_ADDRESS
2 FROM CO.CUSTOMERS
3 WHERE CUSTOMER_ID < 7;
4
```

FULL_NAME	EMAIL_ADDRESS
Tammy Bryant	tammy.bryant@internalmail
Roy White	roy.white@internalmail
Gary Jenkins	gary.jenkins@internalmail
Victor Morris	victor.morris@internalmail
Beverly Hughes	beverly.hughes@internalmail
Evelyn Torres	evelyn.torres@internalmail

2- List the customers' names for customers whose names contain 'ly' as the 4th and 5th character; capital or small.

```
1 SELECT FULL_NAME
2 FROM CO.CUSTOMERS
3 WHERE FULL_NAME LIKE '___ly%';
```



3- List the customer's name and the number of orders for each customer.

```
1    SELECT C.FULL_NAME, COUNT(O.ORDER_ID) AS NUMBER_OF_ORDERS
2    FROM CO.CUSTOMERS C
3    LEFT JOIN CO.ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID
4    GROUP BY C.FULL_NAME;
5
```

FULL_NAME	NUMBER_OF_OF	DERS	Santiago Vautus	4	2	Lucila Heck	Ambrose Hiday	3
Tyler Curlee	3		Daniella Almonte	5	9	Lonnie Colby	Tim Harmon	4
Broderick Faur	6		Lai Kurtich	4	9	Stephanie Jones	Ralph Foster	8
Carol Alexander	6		Li Robleto	6	4	Raymond Bailey	Finian Park	3
Lillia Talbott	4		Monte Calloway	7	5	Boyd Rearden	Tressa Coppens	4
Andria Myles	4		Jeffrey Coleman	6	1	Marvis Chou	Rhoda Hasfjord	3
Carl Lee	5		Beverly Hughes	3	4	Haywood Burd	Rob Kempt	4
Luis Pothoven	5		Norris Michener	2	7	Elden Arancibia	Meg Vetterkind	3
Cathey Salen	7		Nelson Koschnitzki	8	9	Cheryl Phillips	Nelson Golz	8
Edmund Hikel	5		Jacklyn Clippard	4	4	Gerald Evans	Nancy Hall	2
Dagny Bumatay	7		Alvin Gagner	7	7	Adam Miller	Evelyn Torres	6
Dinah Paredes	1		Susan Jenkins	4	5	Reinaldo Feltner	Carter Sacarello	4
Pete Chevis 5								
Adeline Iannotti 4								
Kristina Livshits 11								

4- List the order status categories and the number of orders in each status in ascending order.

- 1 v SELECT ORDER_STATUS, COUNT(ORDER_ID) AS NUMBER_OF_ORDERS
- 2 FROM CO.ORDERS
- 3 GROUP BY ORDER_STATUS
- 4 ORDER BY NUMBER_OF_ORDERS ASC;

ORDER_STATUS	NUMBER_OF_ORDERS
REFUNDED	23
CANCELLED	35
COMPLETE	1892

5- How many orders and the total sales of the product 'Women's Coat'.

```
1 SELECT COUNT(OI.ORDER_ID) AS NUMBER_OF_ORDERS,
2 SUM(OI.UNIT_PRICE * OI.QUANTITY) AS TOTAL_SALES
3 FROM CO.ORDER_ITEMS OI
4 JOIN CO.PRODUCTS P ON OI.PRODUCT_ID = P.PRODUCT_ID
5 WHERE P.PRODUCT_NAME LIKE '%Women''s Coat%';
```

NUMBER_OF_ORDERS	TOTAL_SALES
89	11088.24

6- List the customers' names with no orders till now.

```
1 V SELECT C.FULL_NAME
2 FROM CO.CUSTOMERS C
3 LEFT JOIN CO.ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID
4 WHERE O.ORDER_ID IS NULL;

no data found
```

7- List the names of customers' names for all customers having more than one order on the same day.

8- List the items' details including the total price for order number 678.

PRODUCT_NAME	QUANTITY	UNIT_PRICE	TOTAL_PRICE
Boy's Coat (Blue)	4	39.91	159.64
Girl's Shorts (Red)	3	43.71	131.13
Girl's Dress (Red)	2	7.18	14.36

9- List the top 3 orders according to the order total cost.

- $_{1}$ SELECT O.ORDER_ID, O.CUSTOMER_ID, SUM(OI.QUANTITY * OI.UNIT_PRICE) AS TOTAL_COST
- 2 FROM CO.ORDERS O
- 3 JOIN CO.ORDER_ITEMS OI ON O.ORDER_ID = OI.ORDER_ID
- 4 GROUP BY O.ORDER ID, O.CUSTOMER ID
- 5 ORDER BY TOTAL_COST DESC
- 6 FETCH FIRST 3 ROWS ONLY;

ORDER_ID	CUSTOMER_ID	TOTAL_COST
918	118	529.4
1509	166	517.69
927	146	483.65

10- List the customers' names with more orders than the average of the order for one customer.

```
1 V SELECT C.FULL_NAME
2 FROM CO.CUSTOMERS C
3 JOIN CO.ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID
4 GROUP BY C.FULL_NAME
5 HAVING COUNT(O.ORDER_ID) > (
        SELECT AVG(ORDER_COUNT)
6
        FROM (
7
8
           SELECT CUSTOMER_ID, COUNT(ORDER_ID) AS ORDER_COUNT
9
           FROM CO.ORDERS
           GROUP BY CUSTOMER_ID
10
11
        ));
12
```

FULL_NAME	Adam Miller	Florance Bateman	Gary Jenkins	
Alvin Gagner	Carl Lee	Collene Guderjahn	Evelyn Torres	
li Robleto	Ralph Foster	Freddie Kirkhart	Norma Robinson	
	Carol Alexander Nanci Bunt		Tina Simmons	
Edmund Hikel	Daniella Almonte	Daniella Almonte Broderick Dourado		
Dagny Bumatay	Luis Pothoven	Jewel Ginnery	Domingo Morano	
Elden Arancibia	Reinaldo Feltner	Vickie James	Milo Manoni	
Broderick Faur	Boyd Rearden	Tiffany Pena		
Lonnie Colby	-		Carlotta Achenbach	
Monte Calloway	Nelson Koschnitzki	Paulette Byrd	Ayana Barkhurst	
Jeffrey Coleman	Cathey Salen	Felix Fox	Sandy Heffren	
Cheryl Phillips	Nelson Golz	Zulma Olds	Pete Chevis	
	Carol Barnes	Lorilee Bautista	Kristina Livshits	
Stephanie Jones	Van Seaforth	Irene Moore	Jewel Pedroncelli	