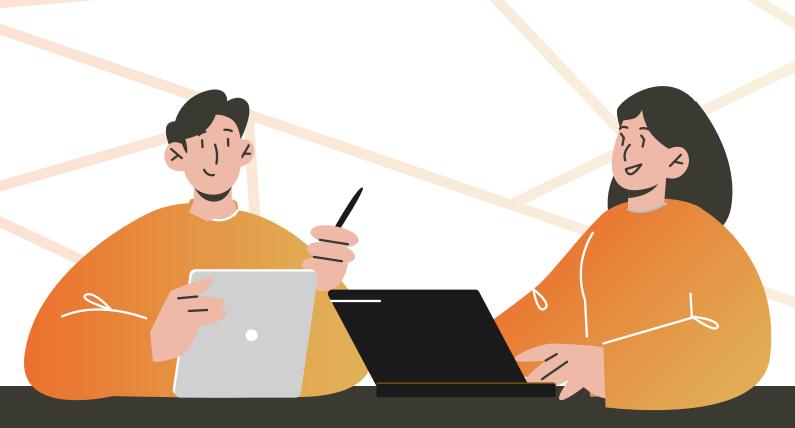
LUMEN

Report of Yaragala Vikram

Practice Assignment - SQL B asic

Attempt 1 | Submitted on Feb 20 2025 11:03:43



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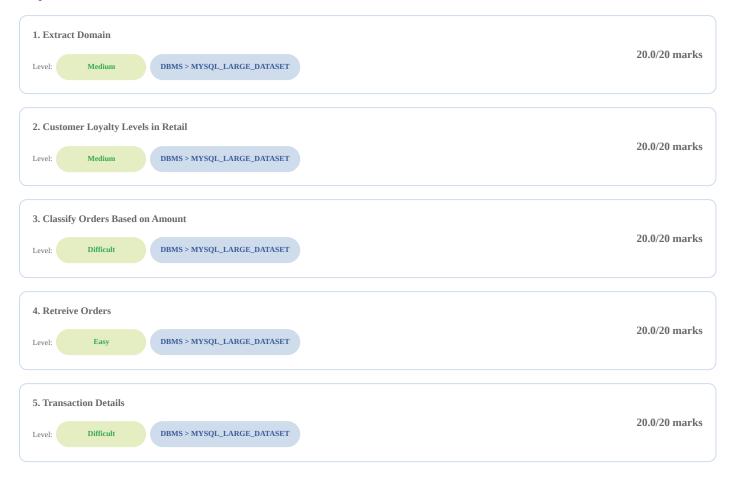
Practice Assignment - SQL Basic



Overall Performance



Project Performance



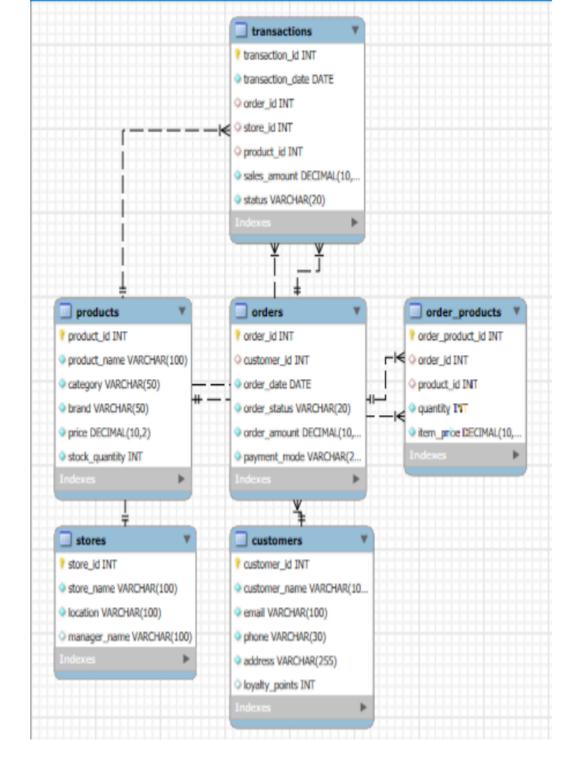
Project 1: Extract Domain

Marks	
Compilation: 0%	0
User Black Box: 0%	0
Evaluator Black Box: 0%	0
User White Box: 0%	0
Evaluator White Box: 0%	0
Total Marks Received	20.00
Plagiarism- Not Available	
Code Quality- Not Available	
Final Marks Received	20.00
Test Cases	
User Black Box	
Evaluator Black Box	
User White Box	

Problem Statement

The retail marketing team is preparing a campaign to send special birthday wishes to random customers. They want to target customers whose email address contains the string "on@" and ends with the ".net" domain. For each of these customers, they need to retrieve the following details:

- customer_name
- email
- address



Note: Provide table name in uppercase in your query(Eg.,CUSTOMERS)

customer_name	email	address
Joel Rodriguez	hickmanjon@example.net	706 Bailey Ville East Gilbert, WA 79541
Scott Davis	fanderson@example.net	72190 William Manor Breannastad, NH 48419
Daniel Morrow	antoniowilson@example.net	2252 Becker Burgs Suite 724 New Anthonybury, SC 61840
Phillip Hansen	sandramorton@example.net	50047 Matthew Loop Suite 326 North Jonathanburgh, WY 78787
Jeffrey Medina	rrichardson@example.net	29789 Martinez Crossing Port Eric, PR 54091
Taylor Gray	karenharrison@example.net	145 Rita Views Port Jeffrey, TX 13246

Submitted Code

select customer_name,email,address from CUSTOMERS where email like '%on@%' and email like '%.net';

Marks	
Compilation: 0%	0
User Black Box: 0%	0
Evaluator Black Box: 0%	0
User White Box: 0%	0
Evaluator White Box: 0%	0
Total Marks Received	20.00
Plagiarism- Not Available	
Code Quality- Not Available	
Final Marks Received	20.00
Test Cases	
User Black Box	
Evaluator Black Box	
User White Box	
Evaluator White Box	

Problem Statement

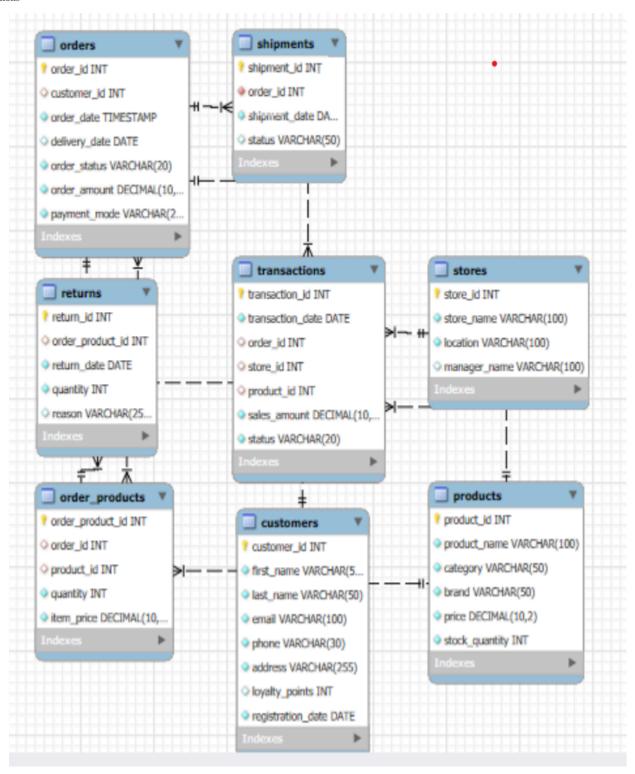
Customer loyalty is critical for business success. Customers accumulate **loyalty points** based on their transactions, which determine their loyalty level. Write a query to classify customers into three loyalty levels based on their loyalty_points:

- **Gold**: Customers with 400 or more loyalty points. These customers are considered premium customers and receive special benefits.
- **Silver**: Customers with loyalty points between 200 and 399. These customers are considered regular customers with some benefits.
- **Bronze**: Customers with 199 or less loyalty points. These customers are new or infrequent shoppers.

The query should retrieve:

- customer_id,
- first name,
- last name,
- loyalty points, and
- the derived **loyalty_level** (Gold, Silver, Bronze) for all customers whose last name ends with **son**.

Instructions



loyalty_points loyalty_level customer_id first_name last_name 87 Breanna Johnson 445 Gold Gold 67 Lori Jackson 403 23 Donna Ellison 269 Silver 52 Kelly Johnson 212 Silver 6 47 Bronze Dennis Anderson 12 6 Sandy Simpson Bronze

Note : Provide starting letter of table name in uppercase in your query(Eg.,Customers)

Submitted Code

select customer_id,first_name,last_name,loyalty_points, case
when loyalty_points>400 then 'Gold'
when loyalty_points between 200 and 399 then 'Silver'
when loyalty_points<199 then 'Bronze'
end as loyalty_level
from Customers
where last_name like '%son'
order by loyalty_points desc;

Marks	
Compilation: 0%	0
User Black Box: 0%	0
Evaluator Black Box: 0%	0
User White Box: 0%	0
Evaluator White Box: 0%	0
Total Marks Received	20.00
Plagiarism- Not Available	
Code Quality- Not Available	
Final Marks Received	20.00
Test Cases	
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Evaluator Black Box	
User White Box	
Evaluator White Box	

Problem Statement

You are analyzing order data for specific customers in a retail business. Retrieve information from the Orders table for all orders placed by customers with customer_id 95 or 2.

For each order, the query should include the following columns:

- 1. **order_id**: The unique identifier for the order.
- 2. **customer_id**: The ID of the customer who placed the order.
- 3. **order_amount**: The total monetary value of the order.
- 4. **order_date**: The date when the order was placed.
- 5. **order_status**: The current status of the order (e.g., "Pending", "Delivered").
- 6. A **derived column named order_category** that categorizes each order based on the order amount:
 - **High Value**: Orders with an amount of 4000 or more.
 - **Medium Value**: Orders with an amount between 2000 and 3999.
 - Low Value: Orders with an amount below 2000.

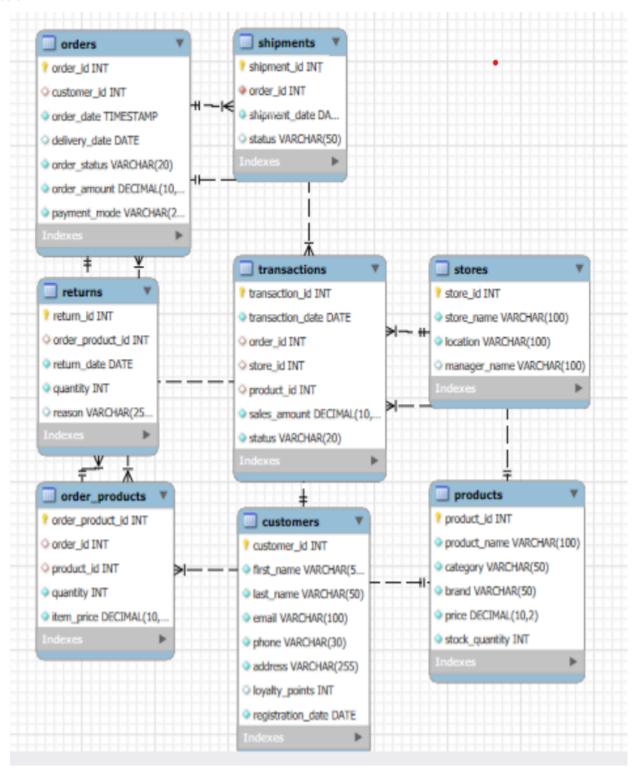
Additionally, filter the results to include only orders from the specified customers (95 and 2).

The output should be sorted:

1. **Primarily** in descending order of order amount to prioritize higher-value orders.

2. **Secondarily** by order_date in ascending order for orders with the same value, showing the oldest orders first.

Instructions



Example

order_id | customer_id order_amount order_date order_status order_category 2021-09-High Value 17 2 4897.6 Completed 17T00:00:00.000Z 2022-08-High Value 27 95 4377.57 Delivered 19T00:00:00.000Z 2024-02-260 2 3992.78 Delivered Medium Value 07T00:00:00.000Z 2023-08-2 2447.73 Completed Medium Value 479 30T00:00:00.000Z 2024-05-Low Value 268 95 1449.51 Delivered 20T00:00:00.000Z 2023-05-Completed 95 Low Value 164 191.76 05T00:00:00.000Z

Note : Provide starting letter of table name in uppercase in your query(Eg.,Customers)

Submitted Code

select order_id,customer_id,order_amount,order_date,order_status, case

WHEN order_amount>4000 THEN 'High Value'
when order_amount between 2000 and 3999 then 'Medium Value'
when order_amount<2000 then 'Low Value'
end as order_category
from Orders
where customer_id in (95,2)
order by order_amount desc,order_date asc;

Project 4: Retreive Orders

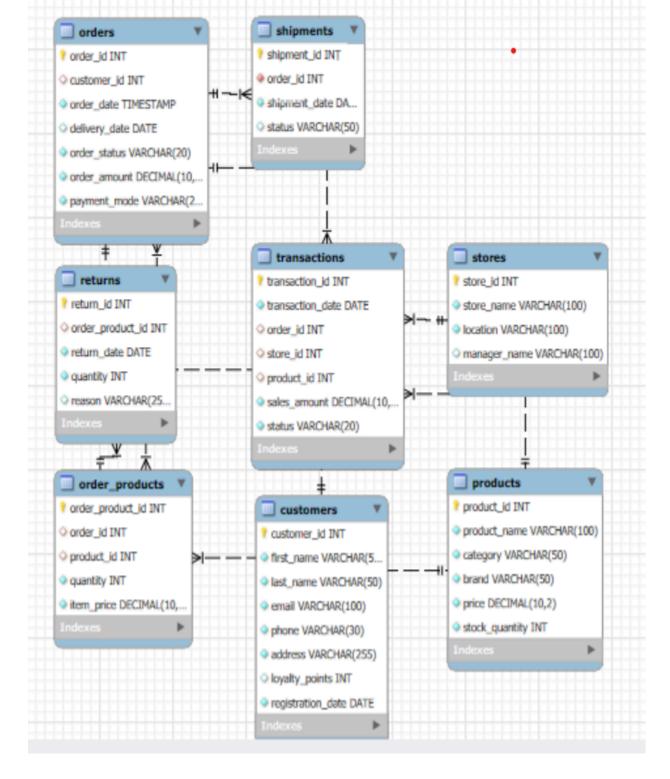
Marks	
Compilation: 0%	0
User Black Box: 0%	0
Evaluator Black Box: 0%	0
User White Box: 0%	0
Evaluator White Box: 0%	0
Total Marks Received	20.00
Plagiarism- Not Available	
Code Quality- Not Available	
Final Marks Received	20.00
Test Cases	
User Black Box	
Evaluator Black Box	
User White Box	
Evaluator White Box	

Problem Statement

The retail management team needs to retrieve details of orders for analysis. They are specifically looking for orders placed by customers with IDs 95, 2, or 51, and that have an order status of either 'Delivered' or 'Shipped'. Additionally, they want the results to be sorted as follows:

- 1. Orders should be ordered primarily by the order_date in descending order, so the most recent orders appear first.
- 2. If multiple orders were placed on the same date, they should be further sorted by the order_amount in ascending order.

Instructions



Note: Provide starting letter of table name in uppercase in your query(Eg.,Customers).

order_id	customer_id	order_amount	order_date	order_status
268	95	1449.51	2024-05- 20T00:00:00.000Z	Delivered
260	2	3992.78	2024-02- 07T00:00:00.000Z	Delivered
163	51	4468.13	2022-09- 24T00:00:00.000Z	Delivered
27	95	4377.57	2022-08- 19T00:00:00.000Z	Delivered
357	51	3605.05	2022-04- 05T00:00:00.000Z	Shipped
407	51	3427.52	2022-04- 01T00:00:00.000Z	Shipped

Submitted Code

select order_id,customer_id,order_amount,order_date,order_status from Orders
where customer_id in(95,2,51) and order_status in('Delivered','Shipped')
order by order_date desc,order_amount asc;

Marks	
Compilation: 0%	0
User Black Box: 0%	0
Evaluator Black Box: 0%	0
User White Box: 0%	0
Evaluator White Box: 0%	0
Total Marks Received	20.00
Plagiarism- Not Available	
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Evaluator Black Box	
User White Box	
Evaluator White Box	

Problem Statement

A retail chain is conducting a review of certain **pending transactions** that are under manual verification. The management team wants to classify these transactions based on their **sales amount** into categories to prioritize processing:

- **High Sales** for transactions with a sales amount greater than \$1000.
- **Moderate Sales** for transactions between \$500 and \$1000.
- Low Sales for transactions below \$500.

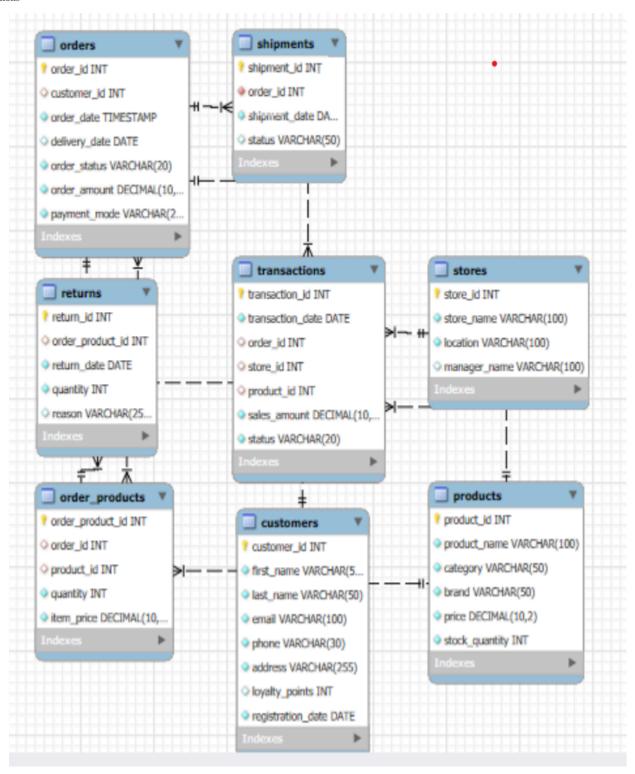
The focus is only on the **pending transactions** with specific transaction IDs (185, 16, and 210) to streamline the investigation process. The results must display the transaction details and be sorted to show the highest-priority transactions first.

Question:

Write a query to display details of pending transactions with transaction IDs 185, 16, and 210. For each transaction, categorize the sales amount into **High Sales**, **Moderate Sales**, or **Low Sales** and sort the results:

- 1. First by **Sales Category** in the order: High > Moderate > Low.
- 2. Then by **Sales Amount** in descending order within each category.

Instructions



transaction_id	sales_amount	sales_category
185	1997.15	High Sales
16	869.26	Moderate Sales
210	848.47	Moderate Sales

Note: Provide starting letter of table name in uppercase in your query(Eg.,Customers)

Submitted Code

select transaction_id,sales_amount,
case
when sales_amount>1000 then 'High Sales'
when sales_amount between 500 and 1000 then 'Moderate Sales'
else 'Low Sales'
end as sales_category
from Transactions
where transaction_id in(185,16,210)
order by sales_amount desc;