
ONLINE RETAIL STORE

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EmbeddedSQL Query

To write the 2 required embedded SQL queries, we have used python as our programming language.

EMBEDDED SQL SYNTAX USED

We have designed the foundation of every query on MySQL using the command:

```
SELECT col1, col2, col3, ....coln or *  
FROM table_name  
[WHERE condition]  
[GROUP BY column_list]  
[ORDER BY column_list];
```

EMBEDDED SQL QUERIES

1. This SQL query is used to generate a report that shows the average product rating for each category, as well as the number of products in each category that have a rating above the category average.

Tables Used: Category, Prod_feedback

Columns Generated: Category_name, Avg_rating,
Num_products_with_rating_above_avg

2. This SQL query retrieves information about customer orders that were paid for using a card payment method, where the customer's email address contains the string "pro".

Tables Used: Cart, Customer, Payment_portal

Columns Generated: Cart_ID, Cust_name, Cust_email, Total_Cost, Payment_type,
Payment_date, Customer_ID

OLAP Query

In all, we have implemented 4 OLAP SQL queries.

OLAP SQL SYNTAX USED

We have designed the foundation of every OLAP query on MySQL using the command:

```
SELECT col1, col2, col3, ....coln or *  
FROM table_name  
[WHERE condition]  
[GROUP BY column_list WITH ROLLUP]  
[ORDER BY column_list];
```

OLAP SQL QUERIES

1. This query retrieves the total number of products in each category and also the grand total of all products across all categories.

Tables Used: Category, Product

Columns Generated: Category_name, Total_products

2. This SQL query is used to retrieve the top 10 best-selling products in terms of total sales.

Tables Used: Customer, Cart, Offer

Columns Generated: Prod_name, Total_sales

3. This SQL query is used to generate a report of the top 10 products with the highest average ratings.

Tables Used: Product, Prod_feedback

Columns Generated: Prod_name, Avg_rating

4. This SQL query is used to generate a report that shows the total amount spent by each customer on their orders, along with the customer's name and ID.

Tables Used: Customer, Order_

Columns Generated: Cust_name, Customer_ID, total_spent

TRIGGERS

In all, we have implemented 6 Triggers.

TRIGGERS SQL SYNTAX USED

We have designed the foundation of every trigger on MySQL using the command:

```
DROP IF EXISTS trigger_name;  
DELIMITER $$  
CREATE TRIGGER trigger_name trigger_time trigger_event  
ON table_name FOR EACH ROW  
BEGIN  
    --variable declarations  
    --trigger code  
END$$
```

TRIGGERS

1. The trigger updates the account data of a customer after a new order is placed.

Tables Used: Account_data, Order_

2. The trigger to delete the older review before inserting a new one for a specific delivery partner and customer.

Tables Used: Partner_review

3. The trigger to delete the older review before inserting a new one for a specific delivery product and customer.

Tables Used: Product_review

4. The trigger prevents inserting deals if the minimum requirement is less than 300.

Tables Used: Offer

5. The trigger updates the number of coupons available to a customer based on the change in their membership plan.

Tables Used: Account_Data, Membership

- The trigger prevents adding a Deal_Id to a Cart if the minimum requirement for that deal is greater than the total cost of the car

Tables Used: Cart, Offer

RELATIONAL SCHEMA



