

E-commerce Dataset Analysis Using MySQL

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"This project showcases key insights derived from an e-commerce dataset using SQL to answer critical business questions."

INTRODUCTION

Describe the dataset briefly:-

The dataset contains information about product categories, sales, discounts, payment methods, and revenue details from an e-commerce store

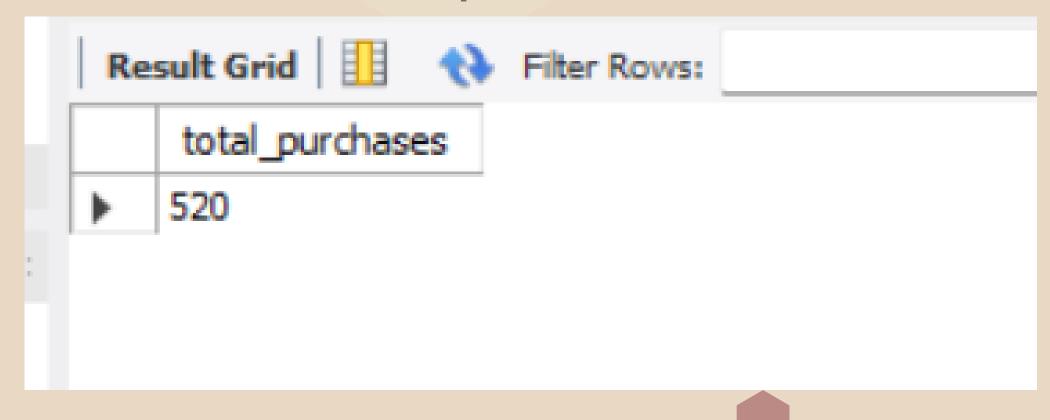
Goal:

o analyze the dataset and provide actionable insights to understand sales trends, revenue generation, and customer preferences.

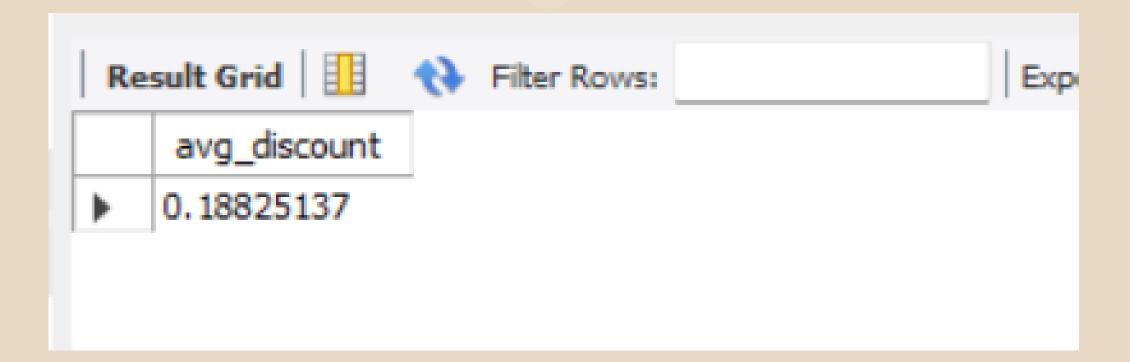
Tools:

MySQL and Canva for presentation.

```
# 1. What is the total number of purchases made in the "Sports" category?
use ecommerce_dataset;
SELECT COUNT(*) AS total_purchases
FROM online_sales
WHERE category = 'Sports';
```



2.Calculate the average discount percentage for all products.
SELECT avg(Discount)/100 as avg_discount FROM online_sales;



```
# 3. Which payment method was used most frequently?

SELECT payment_method ,count(user_id) as total_transction

FROM online_sales

group by payment_method,count(user_id) as total_transction

FROM online_sales

group by Payment_method

order by total_transction desc

limit 1;
```

payment_method	total_transction
Net Banking	716
Credit Card	760
UPI	757
Cash on Delivery	696
Debit Card	731

payment_method	total_transction
Credit Card	760

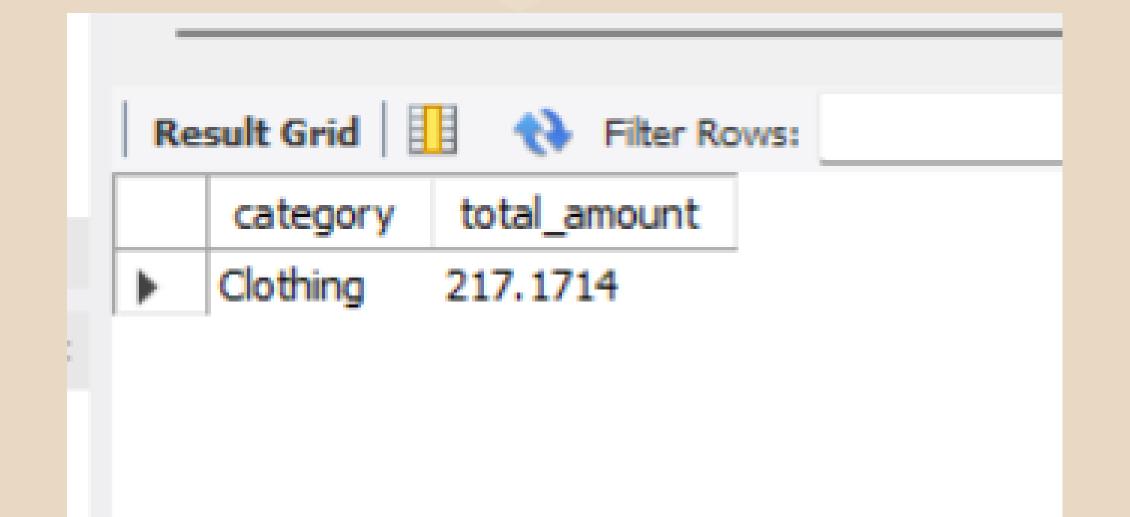
4. What is the total revenue generated from purchases?

SELECT sum(final_price) as total_purchase

FROM online_sales;


```
# 5. Identify the category with the highest average final price.

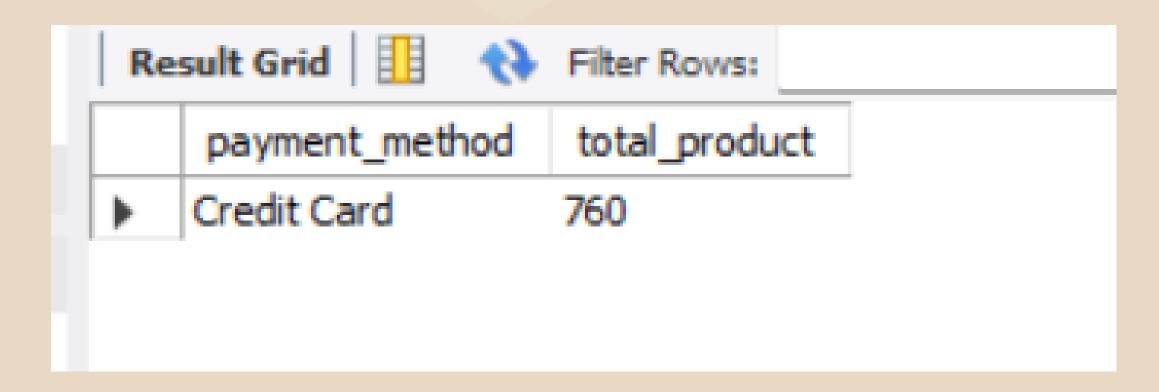
SELECT category , avg(final_price) as total_amount
FROM online_sales
group by category
order by total_amount desc
limit 1;
```



```
# 6. How many products were purchased using "Credit Card"?

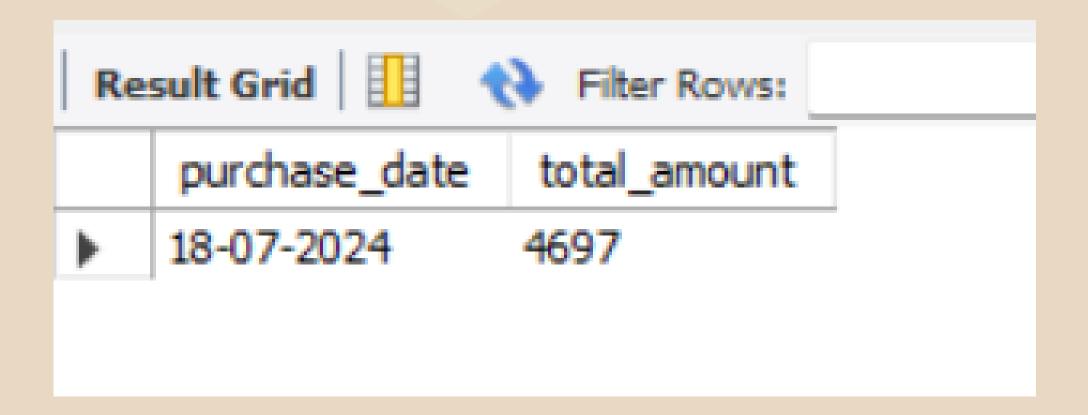
SELECT payment_method,count(user_id) as total_product

FROM online_sales
group by payment_method
having payment_method= "credit card";
```

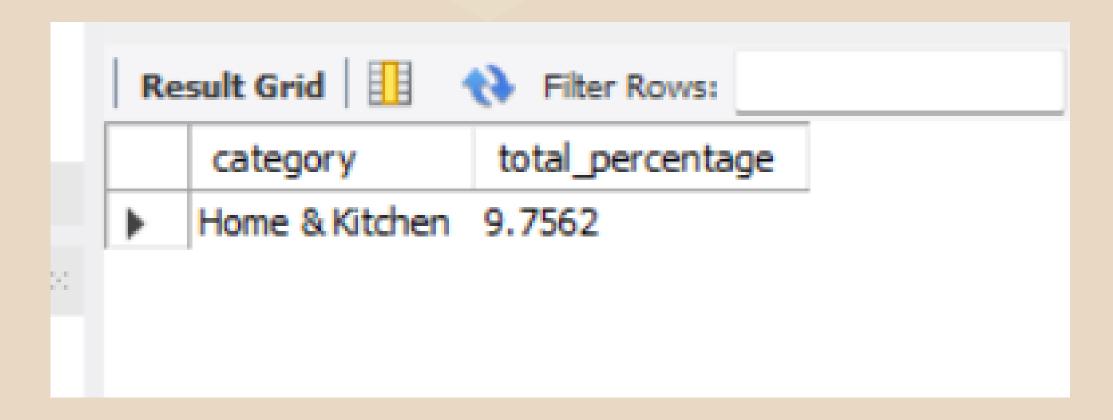


```
# 7. On which date was the maximum revenue generated?

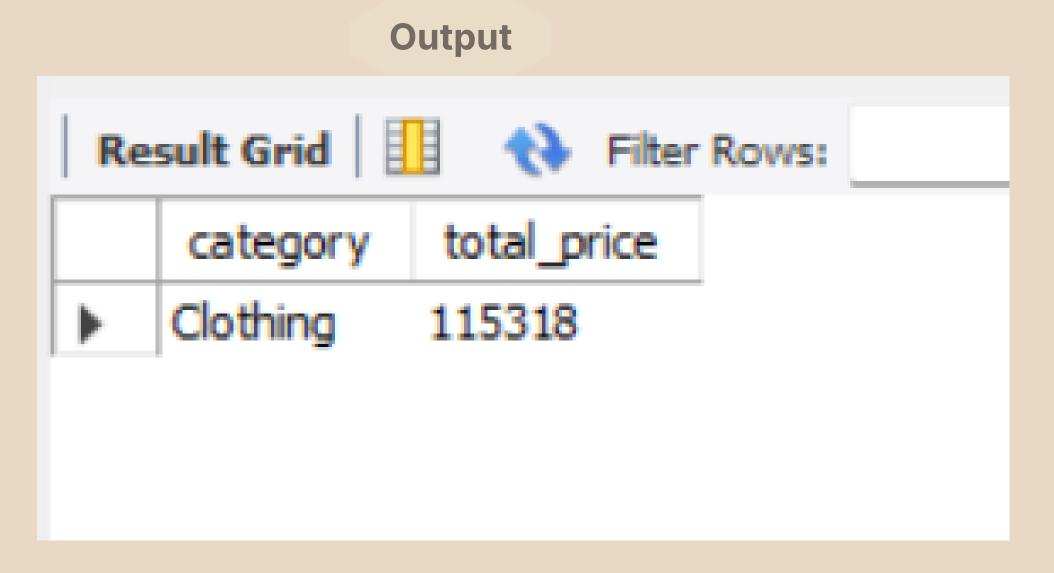
SELECT purchase_date,sum(final_price) as total_amount
FROM online_sales
group by purchase_date
order by total_amount desc
limit 1;
```



```
# 9. What is the highest discount percentage given, and for which product category?
SELECT
category,
(sum(discount)/sum(final_price))*100 as total_percentage
FROM online_sales
group by category
order by total_percentage desc
limit 1;
```



```
#10. Calculate the total revenue generated from the "Clothing" category purchases.
SELECT category,
sum(final_price) as total_price
FROM online_sales
where category = "Clothing"
GROUP BY category
```



Summarize your findings:

This project provided critical insights into customer preferences, sales trends, and revenue streams." "Key highlights include identifying top-performing categories, preferred payment methods, and peak revenue days."

what I am learned:

"Enhanced SQL querying skills and gained deeper knowledge of e-commerce data analysis."

Thank you for taking the time to explore my project!
I'm excited about the potential of data analytics to
drive business decisions and look forward to
continuing my learning journey.
Feel free to connect with me for any queries or
collaboration opportunities!