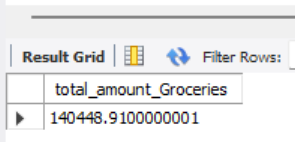
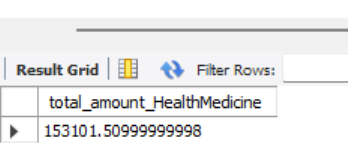
1. **What is the total amount spent in each category for over all 2024?**

**Syntax:**

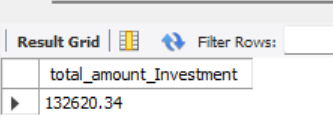
select sum(amount) as total\_amount\_Groceries from expense\_year where category = 'Groceries';

Groceries:  


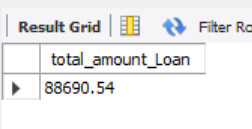
Health & Medicine



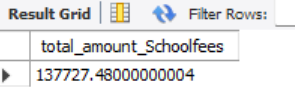
Investment



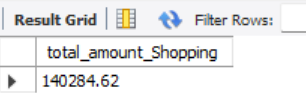
Loan amount



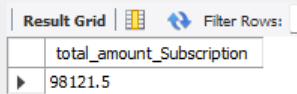
School fees



Shopping



Subscription

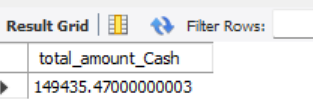


1. **What is the total amount spent using each payment mode?**

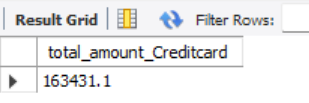
**Syntax:**

select sum(amount) as total\_amount\_Cash from expense\_year where Payment\_Mode = 'Cash';

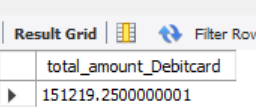
Cash:



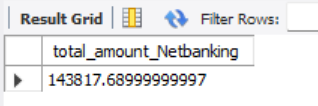
Credit card



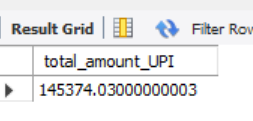
Debit card



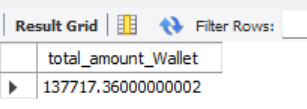
Netbanking



UPI



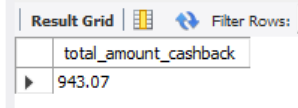
Wallet



1. **What is the total cashback received across all transactions?**

**Syntax:**

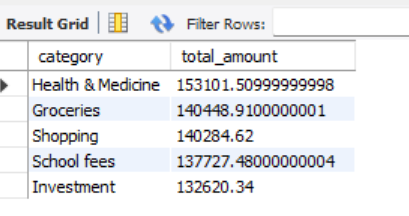
select sum(cashback) as total\_amount\_cashback from expense\_year;



1. **Which are the top 5 most expensive categories in terms of spending?**

**Syntax:**

select category,sum(amount) as total\_amount from expense\_year group by category order by total\_amount desc limit 5;



1. **How much was spent on transportation using different payment modes?**

**Syntax:**

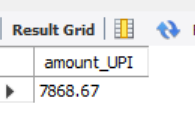
**select sum(amount) as amount\_UPI from expense\_year where payment\_mode='UPI' and discription='Transportation';**

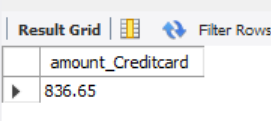
**select sum(amount) as amount\_Creditcard from expense\_year where payment\_mode='Credit card' and discription='Transportation';**

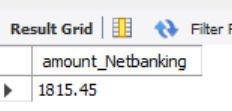
**select sum(amount) as amount\_Netbanking from expense\_year where payment\_mode='Netbanking' and discription='Transportation';**

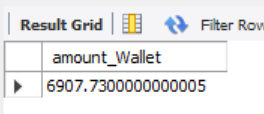
**select sum(amount) as amount\_Wallet from expense\_year where payment\_mode='Wallet' and discription='Transportation';**

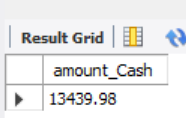
**select sum(amount) as amount\_Cash from expense\_year where payment\_mode='Cash' and discription='Transportation';**

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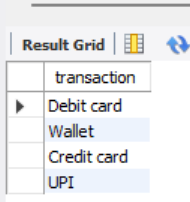
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1. **Which transactions resulted in cashback?**

**Syntax:**

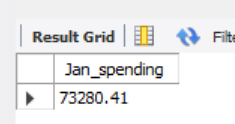
select distinct payment\_mode as transaction from expense\_year where cashback > 0;

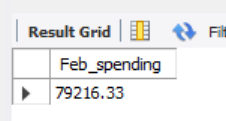


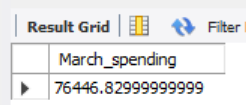
1. **What is the total spending in each month of the year?**

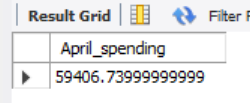
**Syntax:**

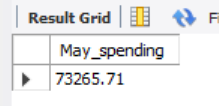
select sum(amount)as Jan\_spending from expense\_year where months='Jan';

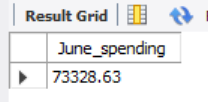


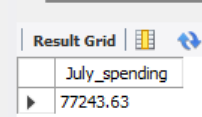


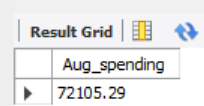


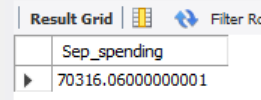


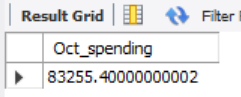


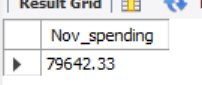


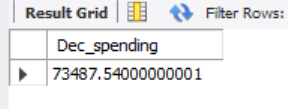








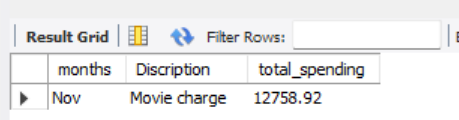




1. **Which months have the highest spending in categories like "Travel," "Entertainment," or "Gifts"?**

**Syntax:**

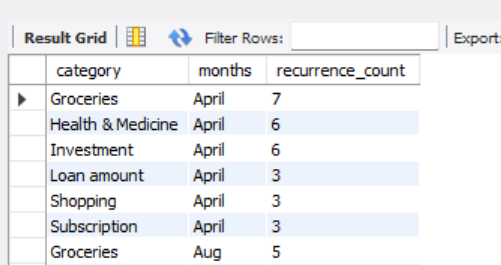
select months,Discription,sum(amount) as total\_spending from expense\_year where discription in('Toys/Gifts Purchase','Transportation','Movie charge','Subscription for Hotstar','Subscription for Netflix') group by months,discription order by total\_spending desc limit 1;

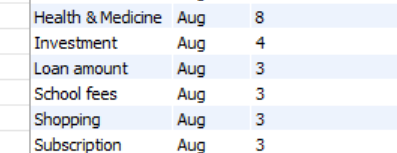


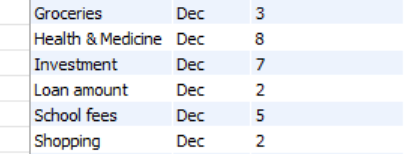
1. **Are there any recurring expenses that occur during specific months of the year (e.g., insurance premiums, property taxes)?**

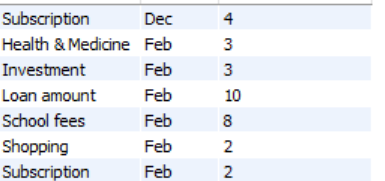
**Syntax:**

select category,months,count(amount)as recurrence\_count from expense\_year group by months,category having recurrence\_count > 1 order by months,category;







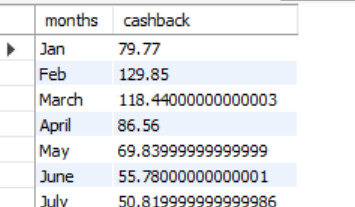
etc..

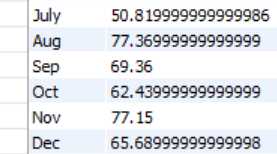


1. **How much cashback or rewards were earned in each month?**

**Syntax:**

select months,sum(cashback)as cashback from expense\_year where cashback>0 group by months;





**11.How has your overall spending changed over time (e.g., increasing, decreasing, remaining stable)?.**

**Syntax:**

**WITH monthly\_spending AS (**

**SELECT**

**months,**

**SUM(amount) AS total\_spending**

**FROM**

**expense\_year**

**GROUP BY**

**months**

**),**

**spending\_change AS (**

**SELECT**

**months,**

**total\_spending,**

**LAG(total\_spending) OVER (ORDER BY CASE WHEN months = 'Jan' THEN 1 WHEN months = 'Feb' THEN 2 WHEN months = 'March' THEN 3 WHEN months = 'April' THEN 4 WHEN months = 'May' THEN 5 WHEN months = 'June' THEN 6 WHEN months = 'July' THEN 7 WHEN months = 'Aug' THEN 8 WHEN months = 'Sep' THEN 9 WHEN months = 'Oct' THEN 10 WHEN months = 'Nov' THEN 11 WHEN months = 'Dec' THEN 12 ELSE 13 END ASC) AS previous\_month\_spending**

**FROM**

**monthly\_spending**

**)**

**SELECT**

**months,**

**total\_spending,**

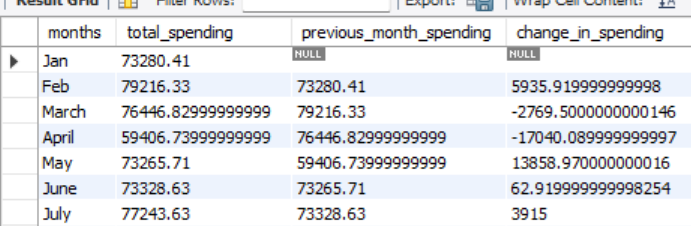
**previous\_month\_spending,**

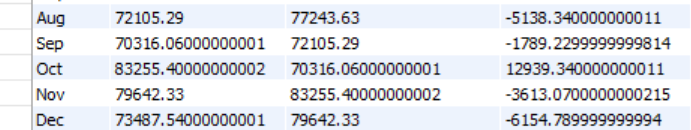
**(total\_spending - previous\_month\_spending) AS change\_in\_spending**

**FROM**

**spending\_change**

**GROUP BY months ORDER BY CASE WHEN months = 'Jan' THEN 1 WHEN months = 'Feb' THEN 2 WHEN months = 'March' THEN 3 WHEN months = 'April' THEN 4 WHEN months = 'May' THEN 5 WHEN months = 'June' THEN 6 WHEN months = 'July' THEN 7 WHEN months = 'Aug' THEN 8 WHEN months = 'Sep' THEN 9 WHEN months = 'Oct' THEN 10 WHEN months = 'Nov' THEN 11 WHEN months = 'Dec' THEN 12 ELSE 13 END ASC;**

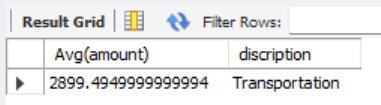
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1. **What are the typical costs associated with different types of travel (e.g., flights, accommodation, transportation)?**

**Syntax:**

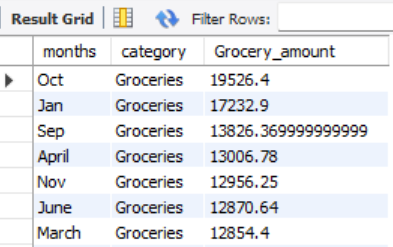
select Avg(amount),discription from expense\_year where discription='Transportation';

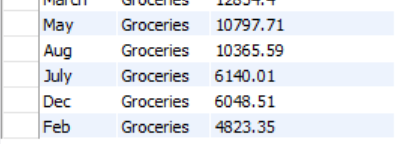


1. **Are there any patterns in grocery spending (e.g., higher spending on weekends, increased spending during specific seasons)?**

**Syntax: For seasonal spending like Diwali and New year**

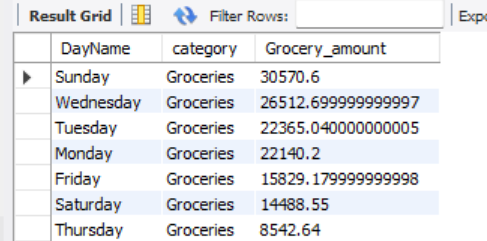
select months,category,sum(amount)as Grocery\_amount from expense\_year where category= 'Groceries' group by months,category order by grocery\_amount desc;





**Syntax: For weekdays(Sunday was spent a lot)**

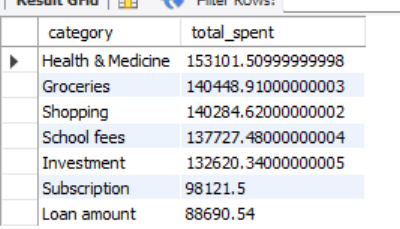
select DAYNAME(date) as DayName,category,sum(amount)as Grocery\_amount from expense\_year where category= 'Groceries' group by DayName,category order by grocery\_amount desc;



1. **Define High and Low Priority Categories?**

**Syntax:**

select category,sum(amount)as total\_spent from expense\_year group by category order by total\_spent desc;

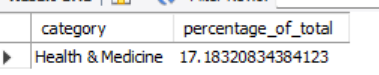
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Here high priority on Health & Medicine where as low priority on Loan amount.

1. **Which category contributes the highest percentage of the total spending?**

**Syntax:**

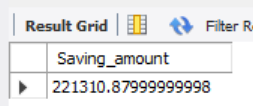
SELECT category, (SUM(amount) / (SELECT SUM(amount) FROM expense\_year)) \* 100 AS percentage\_of\_total FROM expense\_year GROUP BY category ORDER BY percentage\_of\_total DESC LIMIT 1;



**16.What is the total amount saved at overall year?**

**Syntax:**

select sum(amount)as Saving\_amount from expense\_year where Category in('Loan amount','Investment');



**17.Average amount spent per month?**

**Syntax:**

SELECT SUM(amount) / 12 AS Avg\_per\_month FROM expense\_year;

