

Task-06

Extract: Extracted month from Date column

The screenshot shows a SQL IDE window with a query editor and a result grid. The query editor contains the following SQL code:

```
1 • SELECT * FROM ecommerce.sales;  
2 • select extract(month from Date) as Month from sales;  
3  
4  
5
```

The result grid displays the output of the query, showing a single column named 'Month' with 15 rows of data. The first 10 rows contain the value '1', and the last 5 rows contain the value '2'.

Month
1
1
1
1
1
1
1
1
1
1
2
2
2
2
2

Group BY: group by month with totalrevenue

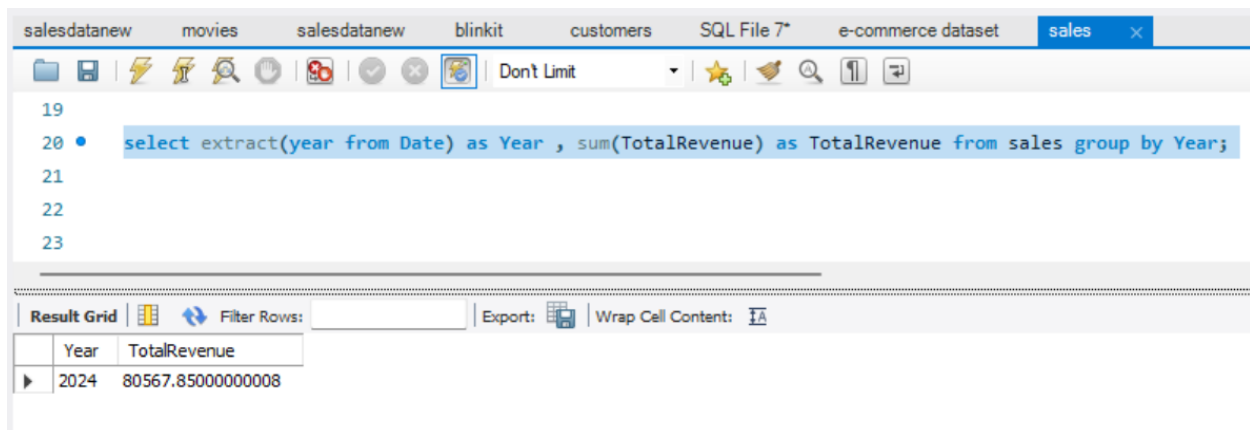
The screenshot shows a SQL IDE window with a query editor and a result grid. The query editor contains the following SQL code:

```
10  
11 • select extract(month from Date) as Month , sum(TotalRevenue) as TotalRevenue from sales group by Month;  
12  
13  
14
```

The result grid displays the output of the query, showing two columns: 'Month' and 'TotalRevenue'. The data is grouped by month, with 8 rows shown. The first row (Month 1) has a total revenue of 14548.319999999992, and the last row (Month 8) has a total revenue of 7278.109999999999.

Month	TotalRevenue
1	14548.319999999992
2	10803.369999999999
3	12849.239999999996
4	12451.689999999995
5	8455.49
6	7384.549999999998
7	6797.08
8	7278.109999999999

Group BY: group by year with totalrevenue



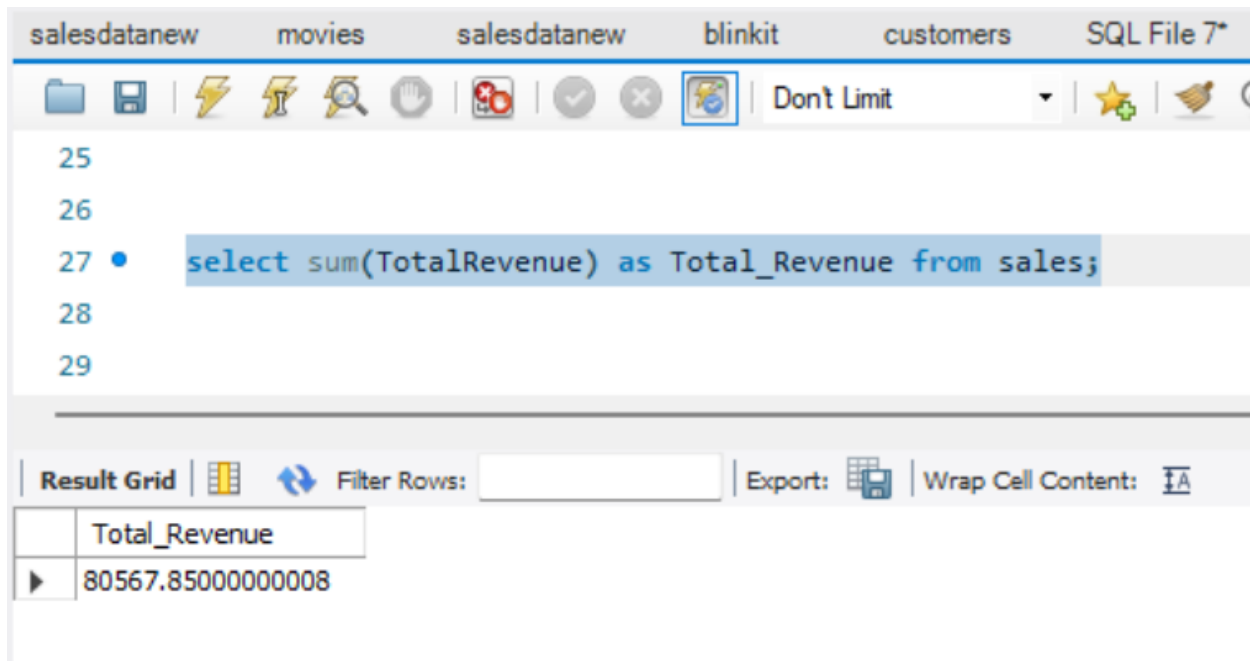
The screenshot shows a SQL IDE with a query editor and a result grid. The query editor contains the following SQL statement:

```
select extract(year from Date) as Year , sum(TotalRevenue) as TotalRevenue from sales group by Year;
```

The result grid displays the following data:

Year	TotalRevenue
2024	80567.85000000008

Sum: used sum to calculate totalrevenue



The screenshot shows a SQL IDE with a query editor and a result grid. The query editor contains the following SQL statement:

```
select sum(TotalRevenue) as Total_Revenue from sales;
```

The result grid displays the following data:

Total_Revenue
80567.85000000008

Distinct: To calculate distinct values in a column

The screenshot shows a database IDE with a query editor and a result grid. The query editor contains the following SQL statement:

```
select count(distinct TransactionID) as volume from sales;
```

The result grid displays the following data:

volume
240

Order By: Used to arrange totalrevenue in descending order

The screenshot shows a database IDE with a query editor and a result grid. The query editor contains the following SQL statement:

```
select TransactionID,ProductCategory,UnitPrice,TotalRevenue from sales order by TotalRevenue DESC;
```

The result grid displays the following data:

TransactionID	ProductCategory	UnitPrice	TotalRevenue
10103	Electronics	3899.99	3899.99
10086	Home Appliances	1299.99	2599.98
10007	Electronics	2499.99	2499.99
10217	Electronics	2399	2399
10001	Electronics	999.99	1999.98
10036	Sports	1895	1895
10073	Electronics	1599.99	1599.99
10038	Home Appliances	799.99	1599.98
10139	Electronics	1499.99	1499.99
10013	Electronics	749.99	1499.98
10133	Electronics	1299.99	1299.99
10067	Electronics	1199.99	1199.99
10163	Electronics	1199.99	1199.99
10008	Home Appliances	599.99	1199.98
10121	Electronics	599.99	1199.98
10037	Electronics	399.99	1199.97
10043	Electronics	399.99	1199.97

Limit: Used to display limited rows

The screenshot shows a SQL IDE interface with a tab labeled 'sales'. The query editor contains the following SQL statement:

```
select * from sales where Month(Date)=2 Limit 10;
```

Below the query editor, the 'Result Grid' displays the results of the query. The grid has 10 columns: TransactionID, Date, ProductCategory, ProductName, UnitsSold, UnitPrice, TotalRevenue, Region, and PaymentMethod. The results are as follows:

TransactionID	Date	ProductCategory	ProductName	UnitsSold	UnitPrice	TotalRevenue	Region	PaymentMethod
10032	2024-02-01 00:00:00	Home Appliances	Instant Pot Duo	3	89.99	269.97	Europe	PayPal
10033	2024-02-02 00:00:00	Clothing	Under Armour HeatGear T-Shirt	5	29.99	149.95	Asia	Debit Card
10034	2024-02-03 00:00:00	Books	1984 by George Orwell	4	19.99	79.96	North America	Credit Card
10035	2024-02-04 00:00:00	Beauty Products	L'Oreal Revitalift Serum	2	39.99	79.98	Europe	PayPal
10036	2024-02-05 00:00:00	Sports	Peloton Bike	1	1895	1895	Asia	Credit Card
10037	2024-02-06 00:00:00	Electronics	Apple Watch Series 8	3	399.99	1199.97	North America	Credit Card
10038	2024-02-07 00:00:00	Home Appliances	Roomba i7+	2	799.99	1599.98	Europe	PayPal
10039	2024-02-08 00:00:00	Clothing	Columbia Fleece Jacket	4	59.99	239.96	Asia	Debit Card
10040	2024-02-09 00:00:00	Books	Harry Potter and the Sorcerer's Stone	3	24.99	74.97	North America	Credit Card
10041	2024-02-10 00:00:00	Beauty Products	Estee Lauder Advanced Night Repair	1	105	105	Europe	PayPal