Institute of computer technology

B.Tech-CSE(BDA)

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Sem:-3

Enrollment no.:-23162121021

Batch:-31

Sub:-DBMS

Date:-21/8/24

Practical 6

Q:- Solve the following queries using sub queries:-

1) Find the product\_no and description of non moving products i.e. product not being sold.

2) Find the customer name, address1, address2, city and pincode for the client who has placed order no

‘O1901’.

3) Find out if the product ‘Mouse’ has been ordered by any client and print the client\_no, name to whom

it was sold.

A=> Query:- use BDA\_23162121021;

1) select p.product\_no, p.description from product\_master p

where p.product\_no not in ( select product\_no from sales\_order\_details);

2) select c.name, c.city, c.pincode

from client\_master c

where c.client\_no = (

select client\_no

from sales\_order

where order\_no = 'o1901');

3) select c.client\_no, c.name

from client\_master c

where c.client\_no in (

select client\_no

from sales\_order\_details

where product\_no = (

select product\_no

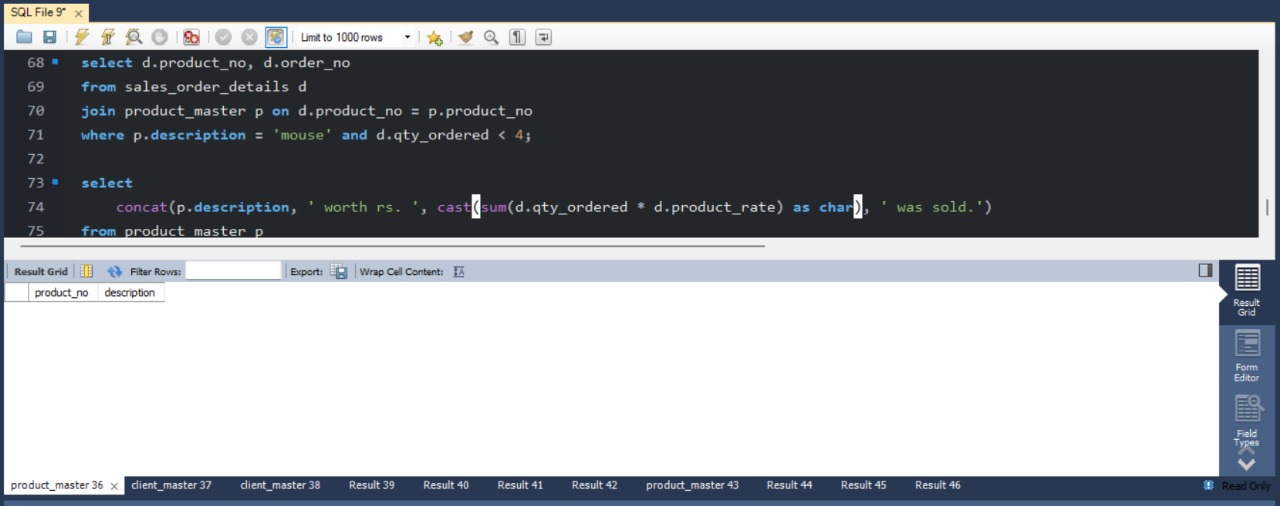
from product\_master

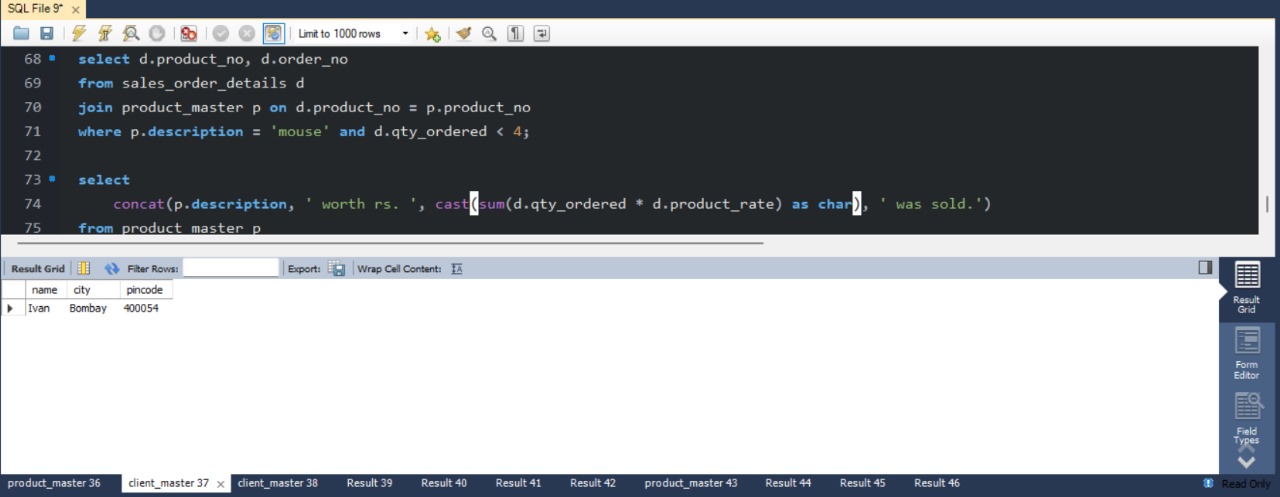
where description = 'mouse'

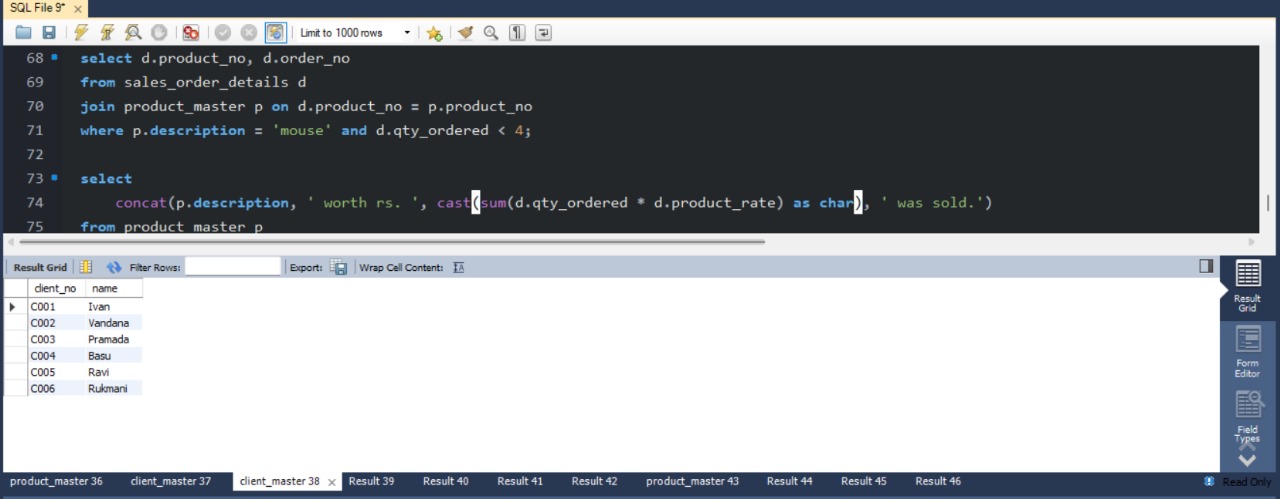
)

);

Screenshot:-

1 

2 

3 

Q:- Queries using Having and Group By Clause:

1) Print the description and total qty sold for each product.

2) Find the value of each product sold.

3) Find out the sum total of all the billed orders for the month of January

A=> Query:-

1) select p.description, sum(s.qty\_ordered) as total\_qty\_sold

from product\_master p

join sales\_order\_details s on p.product\_no = s.product\_no

group by p.description;

2) select p.description, sum(s.qty\_ordered \* s.product\_rate) as total\_value\_sold

from product\_master p

join sales\_order\_details s on p.product\_no = s.product\_no

group by p.description;

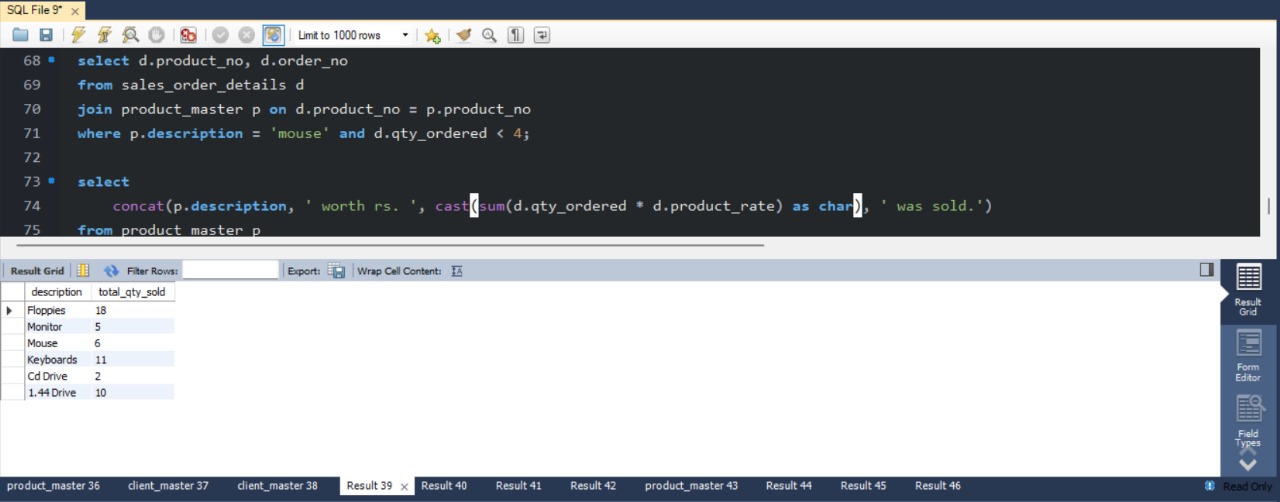
3) select sum(s.Billed\_yn) as total\_billed\_orders

from sales\_order s

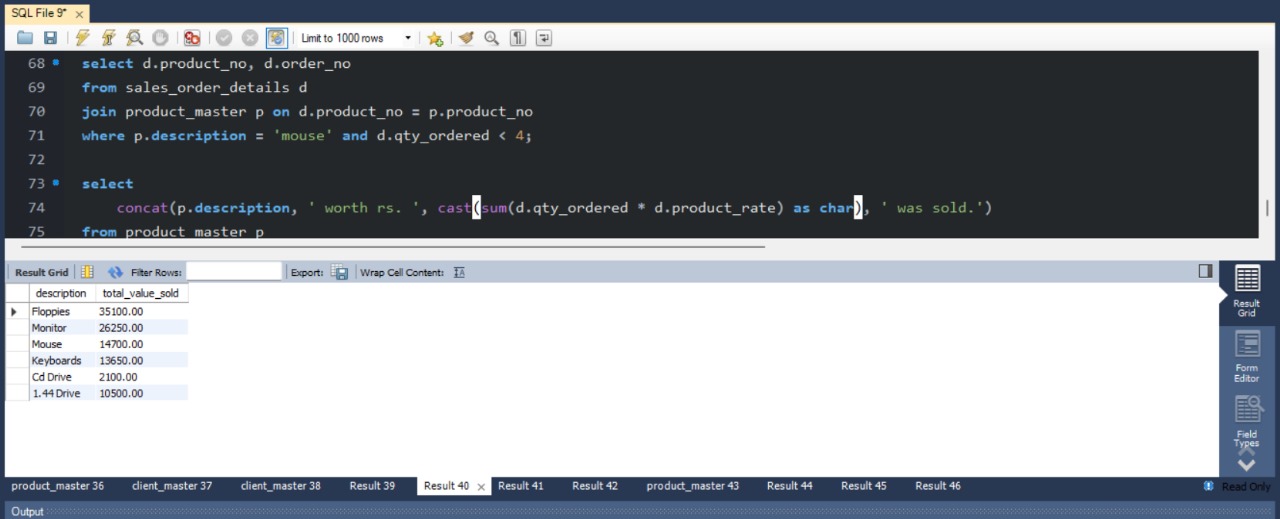
where s.order\_date between '01-jan-2023' and '31-jan-2023';

Screenshot:-

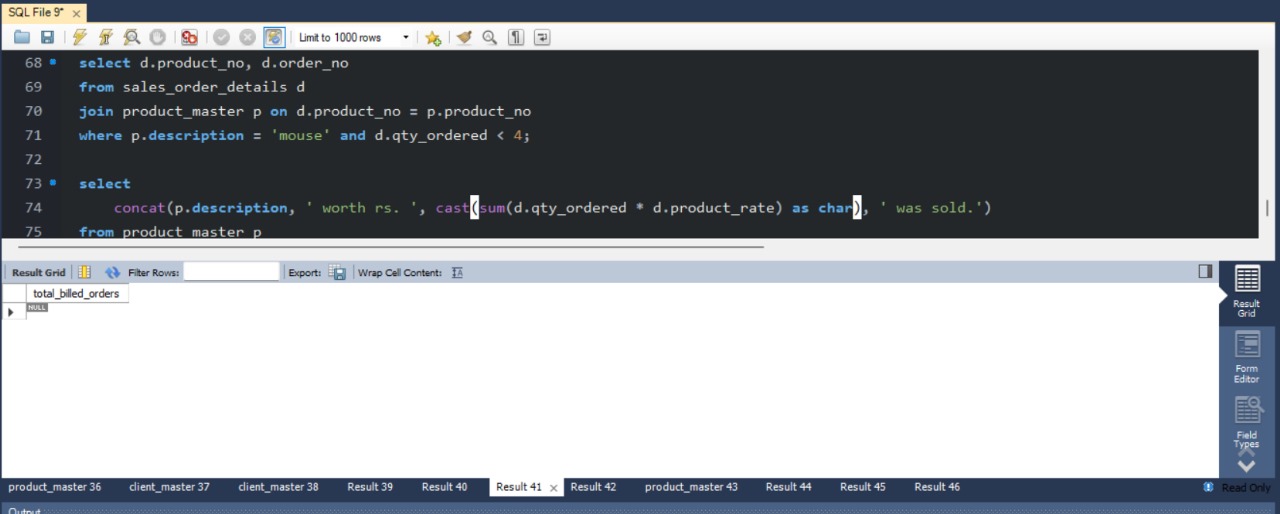
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2



3



Q:- Queries on Joins and Correlation:

1) Find out the products, which have been sold to ‘Ivan’.

2) Find the product\_no and description of constantly sold i.e. rapidly moving products.

3) Find the names of clients who have purchased ‘Cd Drive’.

4) List the product number and order number from customers who have ordered less than 4 units of 'Mouse'.

A=> Query:-

1) select p.product\_no, p.description

from product\_master p

join sales\_order\_details s on p.product\_no = s.product\_no

join sales\_order o on s.order\_no = o.order\_no

join client\_master c on o.client\_no = c.client\_no

where c.name = 'ivan';

2) select p.product\_no, p.description

from product\_master p

where p.product\_no in (

select product\_no

from sales\_order\_details

group by product\_no

having count(\*) >= 3);

3) select c.name

from client\_master c

join sales\_order o on c.client\_no = o.client\_no

join sales\_order\_details d on o.order\_no = d.order\_no

join product\_master p on d.product\_no = p.product\_no

where p.description = 'cd drive'

group by c.name;

4) select d.product\_no, d.order\_no

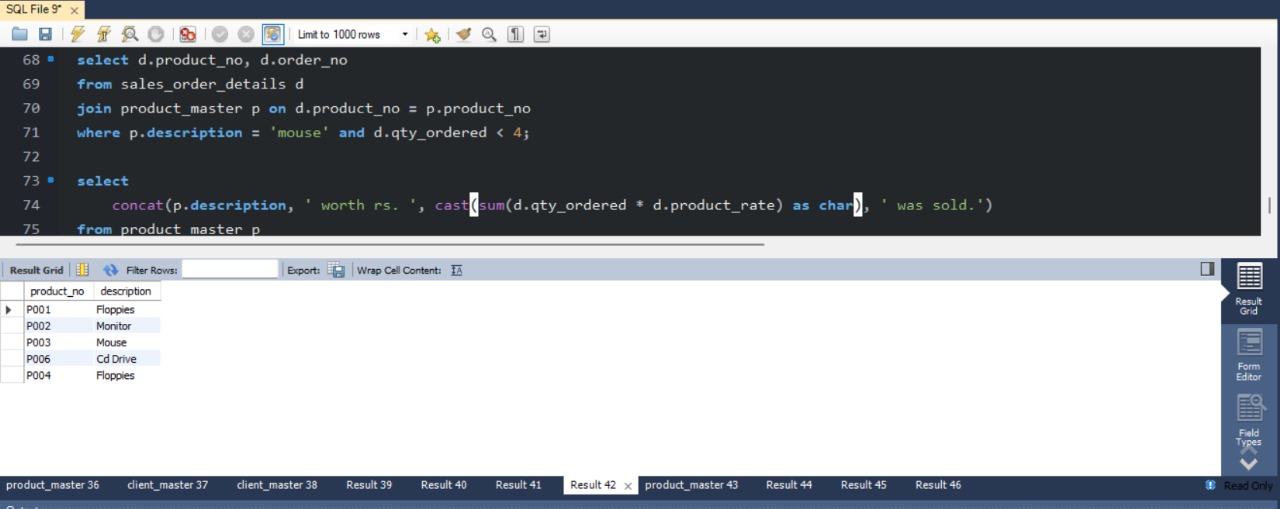
from sales\_order\_details d

join product\_master p on d.product\_no = p.product\_no

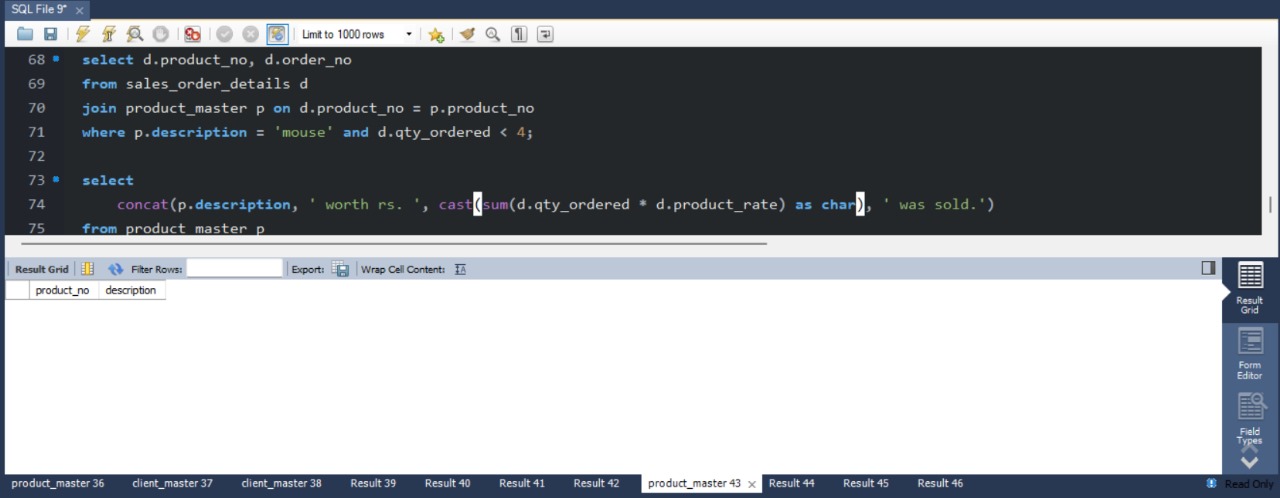
where p.description = 'mouse' and d.qty\_ordered < 4;

Screenshot:-

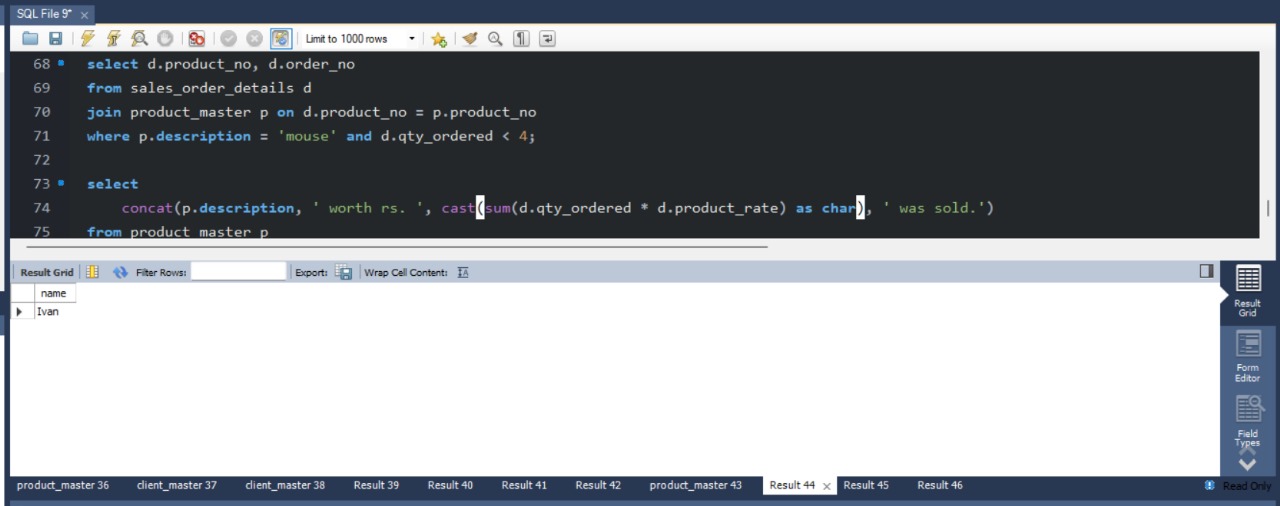
1



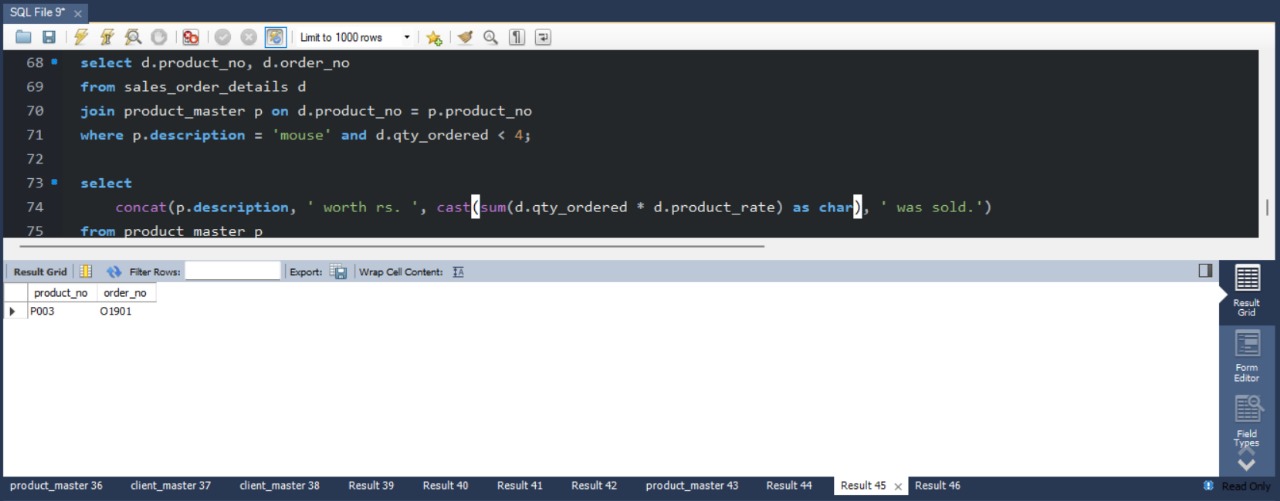
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3



4



Q:- Queries on Constructing Sentences with data:

1) Print information from product-master, sales\_order\_detail tables in the following format for all

records:-

{description} Worth Rs. {total sales for the product} was sold.

A=> Query:-

select

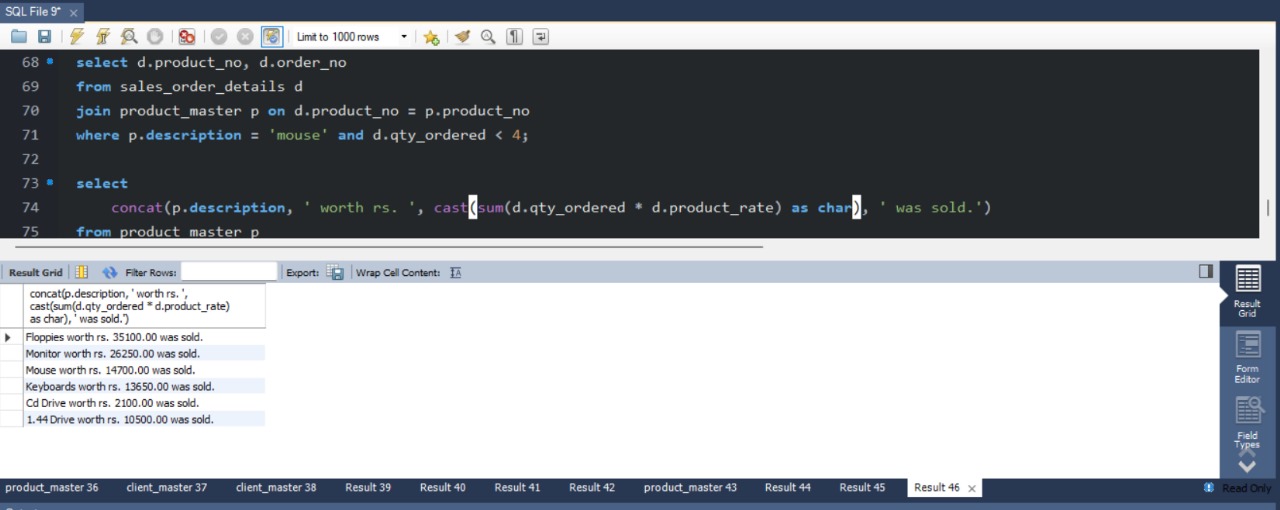
concat(p.description, ' worth rs. ', cast(sum(d.qty\_ordered \* d.product\_rate) as char), ' was sold.')

from product\_master p

join sales\_order\_details d on p.product\_no = d.product\_no

group by p.description;

Screenshot:-



Action logs:- 