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.

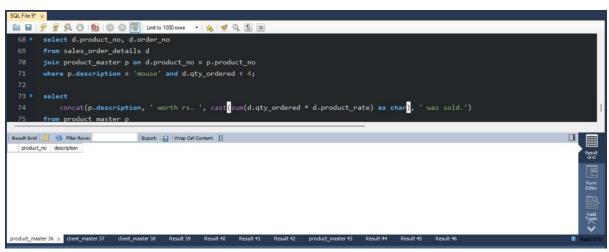
 $A => Query:- use BDA_23162121021;$

- 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

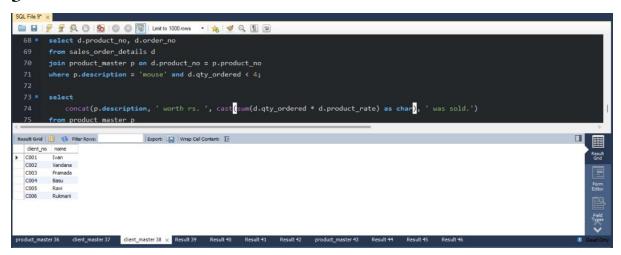


2

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SQLFile 7 X

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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

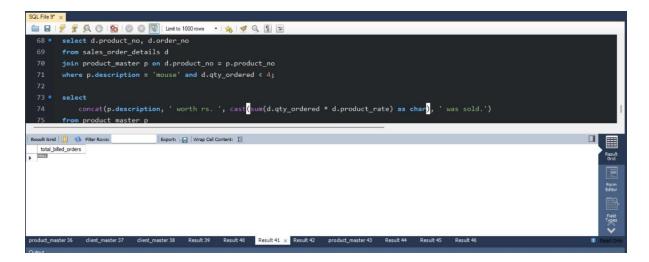
```
from product_master p
join sales_order_details s on p.product_no = s.product_no
group by p.description;
```

- 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:-

1

3



\mathbf{Q} :- Queries on Joins and Correlation:

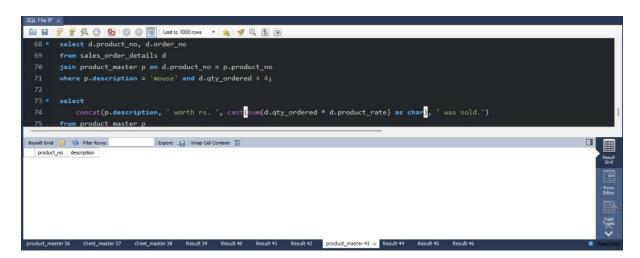
- 1) Find out the products, which have been sold to 'Ivan'.
- 2) Find the product_no and description of constantly sold i.e. rapidly moving products.
- 3) Find the names of clients who have purchased 'Cd Drive'.
- 4) List the product number and order number from customers who have ordered less than 4 units of 'Mouse'.

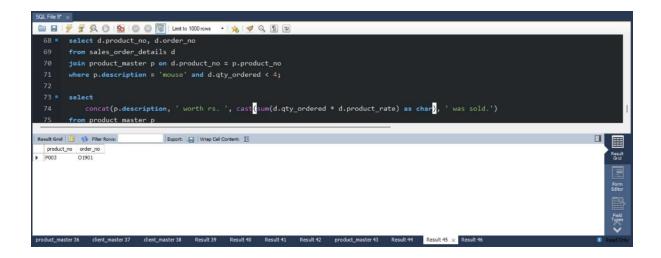
A=> Query:-

1) select p.product_no, p.description

from product_master p

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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:-
```





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

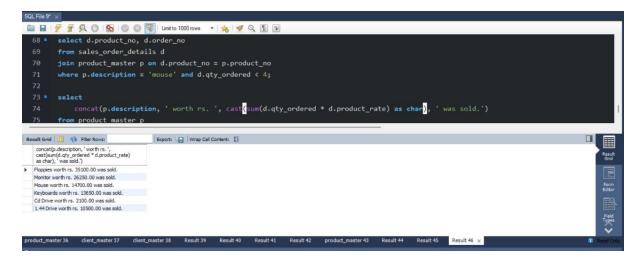
 $concat(p.description, 'worth\ rs.\ ', cast(sum(d.qty_ordered*\ d.product_rate)\ as\ char), 'was\ sold.')$

from product_master p

join sales_order_details d on p.product_no = d.product_no

group by p.description;

Screenshot:-



Action logs:-

