**Institute of Computer Technology**

**B. Tech. Computer Science and Engineering**

**Semester: III**

**Sub: Database Management System**

**Course Code: 2CSE301**

**Practical Number:6**

**Objective:**

*Perform queries using joins, sub query, set operations, group by and*

*having.*

**Queries:**

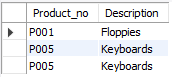
1. **Solve the following queries using sub queries:-**
2. **Find the product\_no and description of non moving products i.e. product not being sold.**

**Code :**

select Product\_no,Description from product\_master where Product\_no in

(select Product\_no from sales\_order\_details where Qty\_disp = 0);

**Output :**

****

1. **Find the customer name, address1, address2, city and pincode for the client who has placed order no ‘O1901’.**

**Code :**

select Name,City,Pincode from Client\_master where Client\_no in

(select Client\_no from sales\_order where Order\_no = 'O1901');

**Output :**



1. **Find out if the product ‘Mouse’ has been ordered by any client and print the client\_no, name to whom it was sold.**

**Code :**

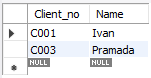
select Client\_no,Name from Client\_master where Client\_no in

(select Client\_no from sales\_order where Order\_no in

(select Order\_no from sales\_order\_details where Product\_no in

(select Product\_no from product\_master where Description = 'Mouse')));

**Output :**



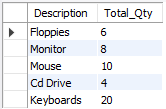
1. **Queries using Having and Group by Clause:-**
2. **Print the description and total qty sold for each product.**

**Code :**

select Description,sum(Qty\_disp) as Total\_Qty from product\_master P,

sales\_order\_details S where P.Product\_no = S.Product\_no group by Description;

**Output :**



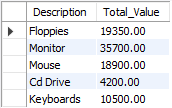
1. **Find the value of each product sold.**

**Code :**

select Description,sum(Qty\_disp\*Product\_rate) as Total\_Value from product\_master P,

sales\_order\_details S where P.Product\_no = S.Product\_no group by Description;

**Output :**

****

1. **Find out the sum total of all the billed orders for the month of January**

**Code :**

select S.Order\_no,Order\_date, sum(Qty\_ordered\*Product\_rate) as Total\_amount from

sales\_order\_details SD,sales\_order S where

S.Order\_no = SD.Order\_no and

Billed\_yn = 'Y' and month(Order\_date) = 1 group by S.Order\_no;

**Output :**



1. **Queries on Joins and Correlation:-**
2. **Find out the products, which have been sold to ‘Ivan’.**

**Code :**

select P.Product\_no, Description

from client\_master as C,

product\_master P, sales\_order\_details SD,sales\_order S

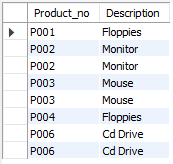
where C.Client\_no = S.Client\_no

and S.Order\_no = SD.Order\_no

and SD.Product\_no = P.Product\_no

and Name = 'Ivan';

**Output :**



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

**Code :**

select distinct P.Product\_no, Description

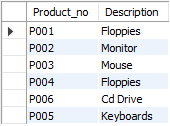
from product\_master P, sales\_order\_details SD,

sales\_order as S where P.Product\_no = SD.Product\_no

and SD.Order\_no = S.Order\_no

group by P.Product\_no, Description;

**Output :**



1. **Find the names of clients who have purchased ‘Cd Drive’.**

**Code :**

select distinct S.client\_no, C.Name from sales\_order\_details SD,

sales\_order S, product\_master P, client\_Master C

where P.product\_no = SD.product\_no

and S.order\_no = SD.order\_no

and C.client\_no = S.client\_no

and Description = 'Cd Drive';

**Output :**



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

**Code :**

select P.Product\_no, S.Order\_no from

product\_master as P, sales\_order as S,

sales\_order\_details as SD where SD.Qty\_ordered < 4

and Description = "Mouse"

and S.Order\_no = SD.Order\_no

and SD.Product\_no = P.Product\_no;

**Output :**



1. **Queries on Constructing Sentences with data:-**
2. **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.**

**Code :**

select CONCAT(Description, " Worth Rs. ", Qty\_disp \* Product\_rate, " was sold") as Description

from product\_master P, sales\_order\_details SD where P.Product\_no = SD.Product\_no;

**Output :**

