ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**DBMS LAB ASSIGNMENT #4**

**SUBMITTED BY:**

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017BSCIT029

4th Sem, 2nd Year

**SUBMITTED TO:**

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**Objective**

**SQL JOIN operation**

**To Understand about join operation and nested queries**

Questions

JOIN

1. Find the product name and product vendor information for orders made by customer number

103.

2. Find the name of customers who ordered items between ‘2003-10-01’ and ‘2003-10-30’ and

status of item is ‘Shipped’.

3. Find the customer name and credit limit of the customers who made orders with order numbers

in 10128, 10130, 10136, 10137.

4. List the name of employees who are located at ‘Sydney’ Office.

5. List all the product details for the orders made by Diego Freyre ( contactFirstName

contactLastName).

Nested Queries

Rewrite SQL queries for above questions using Nested Query Approach

6. List firstName, lastName and email of employee who is located in office at ‘San Francisco’.

7. Find the details of employees who reports to ‘Diane Murphy’.

8. Find the product name and productline that are contained in order number 10100.

**Source Code**

use lab2;

show tables;

desc employees;

desc offices;

desc customers;

desc orderdetails;

desc orders;

select \* from orders where status='Shipped';

desc orderdetails;

**-- 1. Find the product name and product vendor information for orders made by customer number 103.**

select p.productName,p.productVendor from products p, orderdetails od,customers c,orders o where p.productCode=od.productCode and o.customerNumber=c.customerNumber and o.orderNumber=od.orderNumber and c.customerNumber=103;

-**- 2. Find the name of customers who ordered items between ‘2003-10-01’ and ‘2003-10-30’ and status of item is ‘Shipped’.**

select c.customerName from orders o, customers c where o.customerNumber=c.customerNumber and o.status='shipped' and o.orderDate between '2003-10-01' and '2003-10-30';

**-- 3. Find the customer name and credit limit of the customers who made orders with order numbers**

**-- in 10128, 10130, 10136, 10137.**

select c.customerName, c.creditLimit from customers c, orders o where c.customerNumber=o.customerNumber and (o.orderNumber=10128 or o.orderNumber=10130 or o.orderNumber=10136 or o.orderNumber=10137);

**-- 4. List the name of employees who are located at ‘Sydney’ Office.**

select concat(e.firstName," ",e.lastName) from employees e ,offices o where e.officeCode=o.officeCode and o.city='Sydney';

**-- 5. List all the product details for the orders made by Diego Freyre ( contactFirstName**

**-- contactLastName).**

select od.\* from orderdetails od, orders o, customers c where od.orderNumber=o.orderNumber and o.customerNumber=c.customerNumber and contactFirstName='Diego' and contactLastName='Freyre';

-- Nested Queries

-**- 6. List firstName, lastName and email of employee who is located in office at ‘San Francisco’.**

select firstName,lastName, email from employees where officeCode=(select officeCode from offices where city='San Francisco');

-**- 7. Find the details of employees who reports to ‘Diane Murphy’.**

select \* from employees where reportsTo = (select employeeNumber from employees where lastName='Murphy');

-**- 8. Find the product name and productline that are contained in order number 10100.**

select productName, productLine from products where productCode in (select productCode from orderdetails where orderNumber=10100);