# SQL – WORKSHEET 4

## MySQL Sample Database SchemaRefer the following ERD and answer all the questions in this worksheet. You have to write the queries using MySQL for the required Operation.

* **Customers**: stores customer’s data.
* **Products**: stores a list of scale model cars.
* **ProductLines**: stores a list of product line categories.
* **Orders**: stores sales orders placed by customers.
* **OrderDetails**: stores sales order line items for each sales order.
* **Payments**: stores payments made by customers based on their accounts.
* **Employees**: stores all employee information as well as the organization structure such as who reports to whom.
* **Offices**: stores sales office data.

**QUESTIONS:**

1. Write SQL query to show average number of orders shipped in a day (use Orders table).

**Answer:** SELECT AVG( orderNumber) FROM (SELECT COUNT(\*) as numberoforders FROM orders GROUP BY shippedDate;

1. Write SQL query to show average number of orders placed in a day.

**Answer:** SELECT quantityOrdered , AVG(Orders) FROM orderdetails GROUP BY quantityOrdered;

1. Write SQL query to show the product name with minimum MSRP (use Products table).

**Answer:** SELECT productsName FROM products WHERE MIN(MSRP);

1. Write SQL query to show the product name with maximum value of stockQuantity.

**Answer:** SELECT productsName FROM products WHERE MAX(quantityInStock) GROUPBY productsName;

1. Write a query to show the most ordered product Name (the product with maximum number of orders).

**Answer:** SELECT productName FROM products JOIN orderdetails WHERE MAX(quantityOrdered);

1. Write a SQL query to show the highest paying customer Name.

**Answer:** SELECT customerName FROM customers WHERE creditLimit =( SELECT max(creditLimit) FROM customers);

1. Write a SQL query to show cutomerNumber, customerName of all the customers who are from Melbourne city.

**Answer:** SELECT customerNumber, cutomerName FROM customers WHERE city=”Melbourne’;

1. Write a SQL query to show name of all the customers whose name start with “N”.

**Answer:** SELECT \* FROM customers WHERE customerName like ‘%N’;

1. Write a SQL query to show name of all the customers whose phone start with ‘^7.\*’ and are from city ‘Las Vegas’.

**Answer:** SELECT \* FROM customers WHERE phone like ’^7’ and city=’Las Vegas’;

1. Write a SQL query to show name of all the customers whose creditLimit < 1000 and city is either “Las Vegas” or ”Nantes” or “Stavern”.

**Answer:** SELECT \* FROM customers WHERE creditLimit <1000 and city=’Las Vegas’ or ‘Nantes’ or ‘Stavern’;



1. Write a SQL query to show all the orderNumber in which quantity ordered <10.

**Answer:** SELECT \* FROM orderdetails WHERE quanitityOrdered<10;

1. Write a SQL query to show all the orderNumber whose customer Name start with letter **N.**

**Answer:** SELECT \* FROM orderdetails WHERE CHARINDEX (‘N’, NAME)=1;

1. Write a SQL query to show all the customerName whose orders are “Disputed” in status.

**Answer:** SELECT \* FROM customers LEFT JOIN orders ON WHERE orders.status=”Disputed”;

1. Write a SQL query to show the customerName who made payment through cheque with checkNumber starting with **H** and made payment on “2004-10-19”.

**Answer:** SELECT customerName orders INNER JOIN payments WHERE checkNumber IS NOT NULL AND orders.checkNumber LIKE ‘%H’ and payments.paymentDate=”2004-10-19”;

1. Write a SQL query to show all the checkNumber whose amount > 1000.

**Answer:** SELECT \* FROM payments WHERE amount >1000;