**WORKSHEET-4**

**SQL**

**Refer 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.

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

SELECT shippedDate, Avg (orderNumber) FROM Orders GROUP BY shippedDate;

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

SELECT orderDate, Avg (orderNumber) FROM Orders GROUP BY orderDate;

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

SELECT productname, MIN(MSRP) FROM product;

**4. Write a SQL query to show the product name with maximum value of stockQuantity.**

SELECT productname , MAX (quantityinstock) FROM products;

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

SELECT ‘productName’ FROM Products INNER JOIN Orderdetails ON Products.’productCode’ = Orderdetails.’productCode’ GROUP BY Products.’productCode’ ORDER BY Sum(‘quantityOrdered’) DESC LIMIT 1;

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

SELECT ‘customerName’ from customers INNER JOIN Payments ON customers.’customerNumber’=payments.’customerNumber’ GROUP BY Products.’customerNumber’ ORDER BY Sum(‘amount’) DESC LIMIT 1;

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

SELECT customerNumber, customerName FROM customers where city='Melbourne';

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

SELECT customerName FROM customers where customerName like 'N%';

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

SELECT customerName FROM customers where phone like '7\_' and city='Las Vegas';

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

SELECT customerName FROM customers

where creditLimit < 1000 and

(city = 'Las Vegas' or city = 'Nantes' or city = 'Stavern');

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

SELECT orderNumber FROM orderdetails where quantityOrdered < 10;

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

SELECT ordernumber FROM orders WHERE customername LIKE ‘N%’ INNER JOIN customers ON orders.`customerNumber `= customer.`customerNumbere`;

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

SELECT customerName FROM orders

INNER JOIN customers ON orders.customerNumber = customers.customerNumber

where status = 'Disputed';

**14. 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”.**

SELECT customerName FROM payments

INNER JOIN customers ON payments.customerNumber = customers.customerNumber

where checkNumber like 'H%' and paymentDate='2004-10-19';

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

SELECT checkNumber FROM payments where amount > 1000;