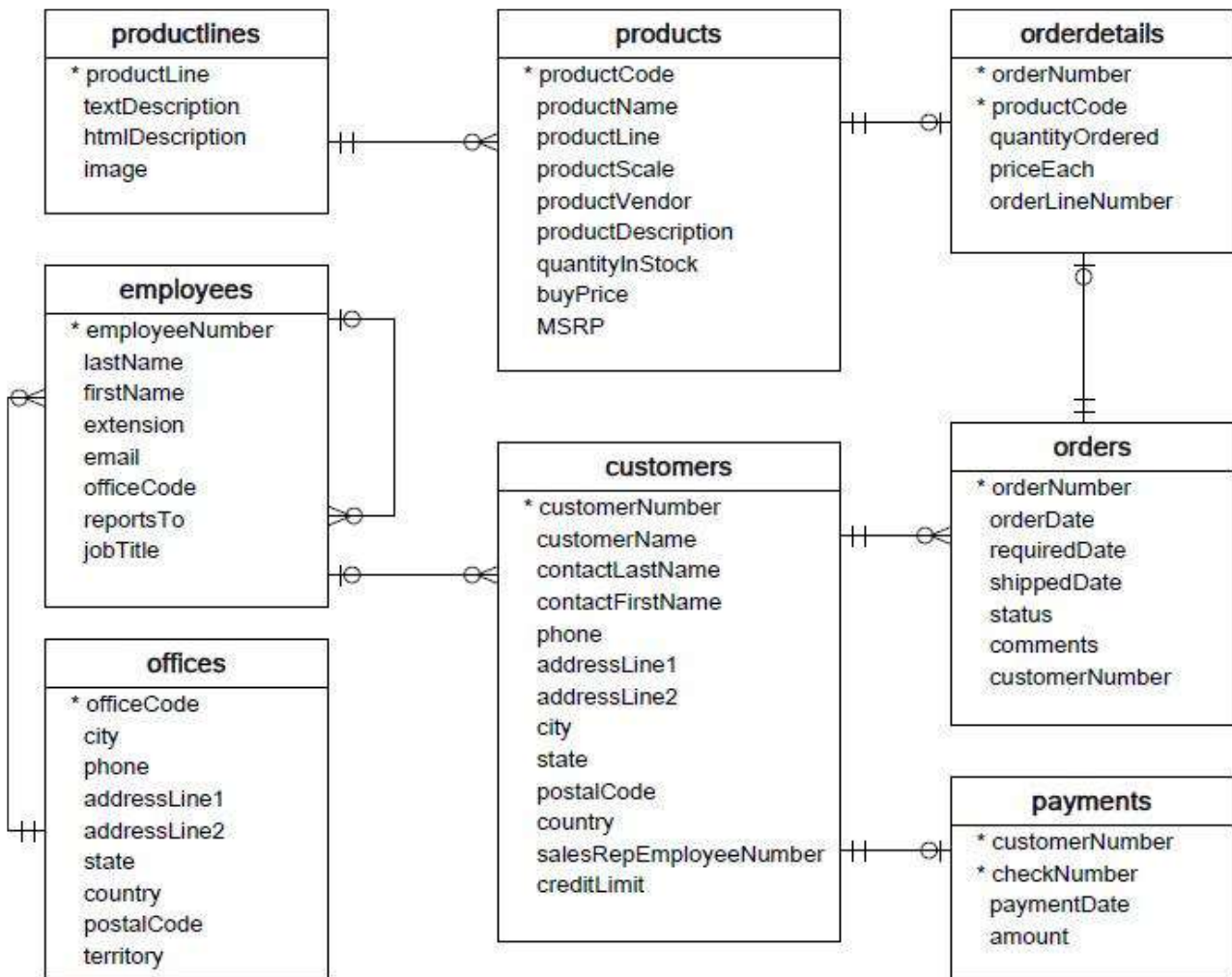


## WORKSHEET 4 SQL

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



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

```
SELECT AVG(COUNT(orderNumber)) AS Average_order_shipped_perday
FROM orders
GROUP BY shippedDate;
```

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

```
SELECT AVG(COUNT(orderNumber)) AS Average_order_placed_perday
FROM orders
GROUP BY orderDate;
```

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

```
SELECT productName FROM products
WHERE MSRP = (SELECT MIN(MSRP) FROM products);
```

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

```
SELECT productName FROM products
WHERE stockQuantity = (
SELECT MAX(stockQuantity) FROM orderdetails);
```

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

```
SELECT TOP 1 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 TOP 1 customerName
FROM customers as c INNER JOIN payments as p
ON c.customerNumber = p.customerNumber
GROUP BY c.customerNumber
ORDER BY SUM(amount) DESC
LIMIT 1;
```

7. Write a SQL query to show customerNumber, 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 = 'Melbourne'));
```

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 = 'Melbourne')
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 orderdetails as o INNER JOIN customers as c
ON o.customerNumber = c.customerNumber
WHERE c.customerName LIKE 'N%';
```

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

```
SELECT customerName
FROM customers as c INNER JOIN orderdetails as o
ON c.customerNumber = o.customerNumber
WHERE o.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 customers as c INNER JOIN payments as p
ON c.customerNumber = p.customerNumber
WHERE ((p.checkNumber LIKE 'H%') AND (p.paymentDate = '2004-10-19'));
```

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

```
SELECT checkNumber FROM payments
WHERE amount > 1000;
```