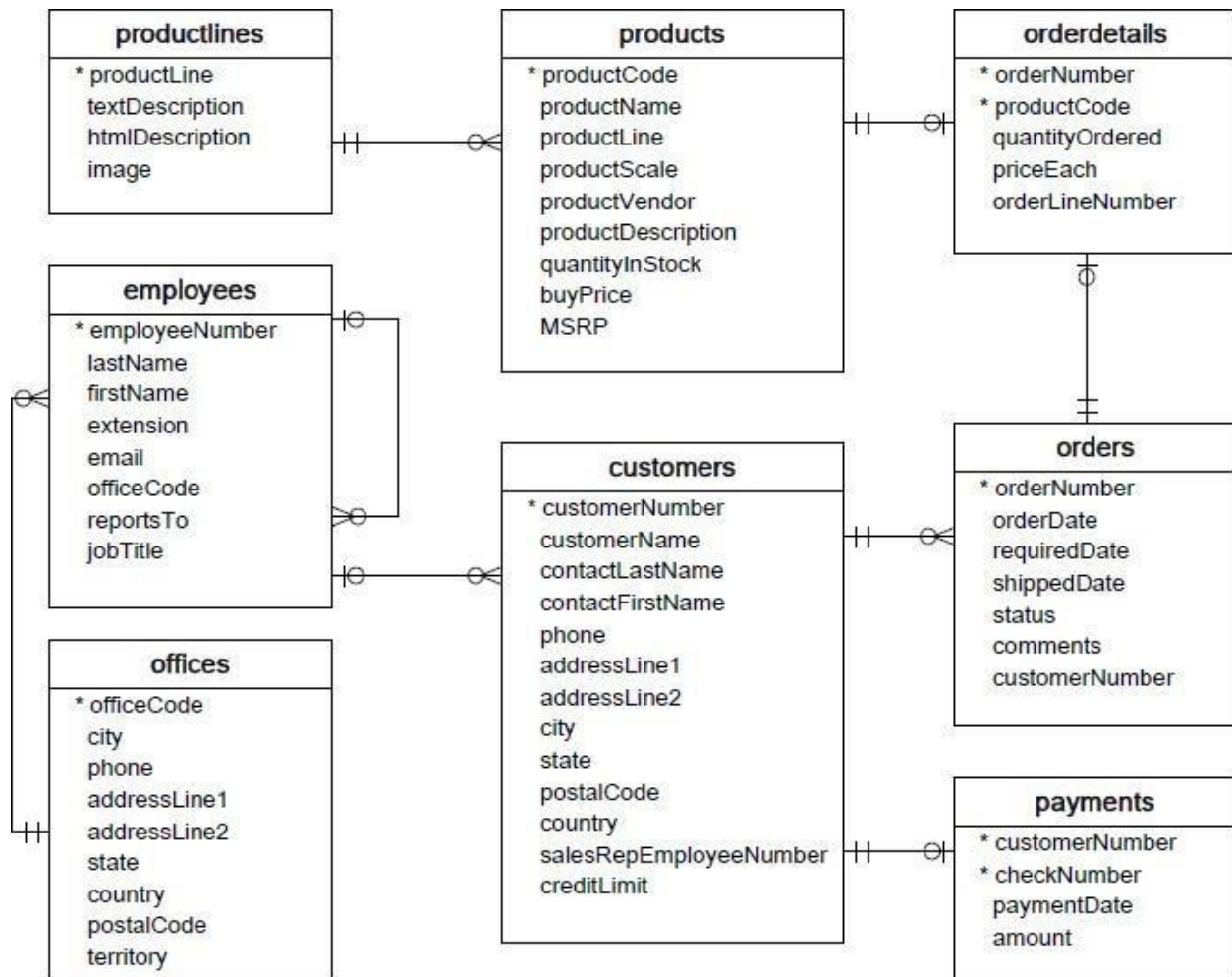


SQL ASSIGNMENT

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.
- **Product Lines:** stores a list of product line categories.
- **Orders:** stores sales orders placed by customers.
- **Order Details:** 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 AND ANSWERS:

Answers highlighted in green

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

SELECT AVG(COUNT(orderNumber)) FROM orders group by shippedDate

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

```
SELECT AVG(COUNT(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 products
```

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 WHERE productcode=(SELECT productcode,MAX(quantityordered) FROM orderdetails)
```

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

```
SELECT customerName FROM customers as c INNER JOIN amount as a ON c.`customerNumber` = a.`customerNumber` ORDER BY MAX(`amount`);
```

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

```
SELECT cutomerNumber, customerName FROM customers WHERE city = 'Melbourne city';
```

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 'LasVegas'.

```
SELECT customerName FROM customers WHERE phone LIKE '7%' and city = 'LasVegas';
```

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 = 'LasVegas' OR city='Nantes' OR city='Stavern');
```

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

```
SELECT orderNumber WHERE quantityOrdered = 1000;
```

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

```
SELECT orderNumber FROM orders as o INNER JOIN customers as c ON o.`customerNumber` = c.`customerNumber` WHERE 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 orders as o ON c.`customerNumber` = o.`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 customers as c INNER JOIN payments as p ON c.`customerNumber` = p.`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 checkNumber > 1000;
```