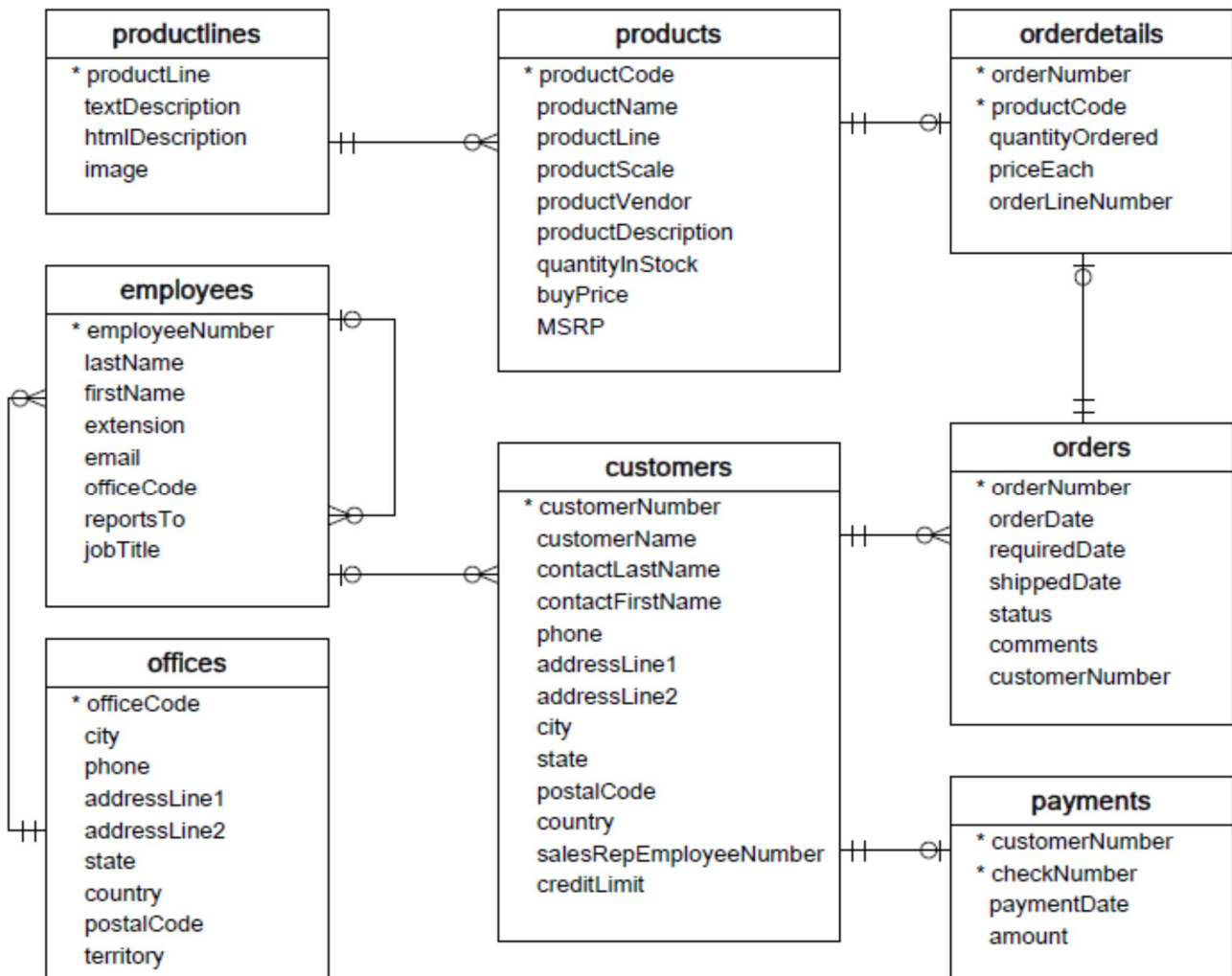


SQL WORKSHEET 3-With Answers



Q1. Write SQL query to create table Customers.

Ans:

```
create table Customers
```

```
)
```

```
customerNumber int not null,
```

```
customerName varchar(100) not null,
```

```
contactLastName varchar(50) not null,
```

```
contactFirstName varchar(50) not null,
```

```
phone int not null,
```

```
addressline1 varchar(100),
```

```
addressline2 varchar(100),
```

```
city varchar(50),
```

```
state varchar(50),
```

```
postalcode int not null,
```

```
country varchar(100),
```

```
saleRepEmployeeNumber int not null,
```

```
creditLimit int not null,
```

```
foreign key(saleRepEmployeeNumber) references employees(employeeNumber),
```

primary key(customerNumber)
;

Q2. Write SQL query to create table Orders.

Ans:

```
create table Orders
)
orderNumber int not null,
orderDate date not null,
requiredDate date not null,
shippedDate not null,
status_ varchar(25) not null,
commments varchar(200),
customerNumber int not null,
primary key(ordernumber),
foreign key(customernumber) references customers(customernumber)
;
```

Q3. Write SQL query to show all the columns data from the Orders Table.

Ans:

```
select * from Orders ;
```

Q4. Write SQL query to show all the comments from the Orders Table.

Ans:

```
select comments from Orders ;
```

Q5. Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table

Ans:

```
select count(orderNumber),orderDate from Orders groupby orderDate ;
```

Q 6. Write a SQL query to show employeeNumber, lastName, firstName of all the employees from employees table.

Ans:

```
select employeeNumber, lastName, firstName from employees ;
```

Q 7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

Ans:

```
SELECT `orderNumber` ,`customerName`
FROM Orders INNER JOIN customers ON orders.`customerNumber`=
customers.`customerNumber`;
```

Q 8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column. (Error in question it must be saleRepEmployeeNumber as per the ERD)

Ans:

```
SELECT `customerName` , CONCAT(`firstName`,`lastName`)
FROM employees INNER JOIN customers
ON Employees.`employeeNumber`= customers.`salesRepEmployeeNumber`;
```

Q 9. Write a SQL query to show Date in one column and total payment amount of the payments made on that date from the payments table.

Ans:

```
select sum(amount),paymentDate from payments groupby paymentDate ;
```

Q 10. Write a SQL query to show all the products productName, MSRP, productDescription from the products table.

Ans:

```
select productName, MSRP, productDescription from products ;
```

Q 11. Write a SQL query to print the productName, productDescription of the most ordered product.

Ans:

```
SELECT `productName`, `productDescription` FROM Products  
INNER JOIN Orderdetails  
ON Products.`productCode` = Orderdetails.`productCode`  
GROUP BY Products.`productCode`  
ORDER BY SUM(`quantityOrdered`) DESC  
LIMIT 1;
```

Q 12. Write a SQL query to print the city name where maximum number of orders were placed.

Ans:

```
SELECT `city` FROM Orders as a  
INNER JOIN Customers as b  
ON a.`customerNumber` = b.`customerNumber`  
GROUP BY `city`  
ORDER BY COUNT(`orderNumber`) DESC  
LIMIT 1;
```

Q 13. Write a SQL query to get the name of the state having maximum number of customers.

Ans:

```
select state, count(customerNumber) from Customers orderby count(customerNumber) groupby  
state ;
```

Q 14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.

Ans:

```
select employeeNumber, concat( firstName, lastName) as fullName from employees ;
```

Q15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

Ans:

```
SELECT `orderNumber`, `customerName`, `quantityOrdered` * `priceEach` as `total amount paid`  
FROM OrderDetails as a INNER JOIN Orders as b  
ON a.`orderNumber` = b.`orderNumber`  
INNER JOIN Customers as c  
ON b.`customerNumber` = c.`customerNumber`;
```

THE END