Q1)How would you fetch details of the customers who cancelled orders?

Soln.

SELECT cutomers\_name

FROM customers c

LEFT JOIN orders o ON c.cutomer\_id = o.customer\_id

WHERE o.status = "cancelled ";

Q2) Fetch the details of customers who have done payments between the amount 5,000 and 35,000?

Soln.

SELECT customer\_name FROM customers c

LEFT JOIN payments p

ON c.customer\_id = p.customer\_id

WHERE amount BETWEEN 5000 AND 35000;

Q3)Add new employee/salesman with following details:-

EMP ID-15657

First Name : Lakshmi

Last Name: Roy

Extension : x4065

Email:lakshmiroy1@lcomotors.comOffice

Code: 4

Reports To: 1088

Job Title: Sales Rep

Soln.

INSERT INTO employees (

employee\_id,

last\_name,

first\_name,

extension,

email,

office\_code,

reports\_to,

job\_title

)

VALUES (

15657,

'Lakshmi',

'Roy',

'x4065',

'lakshmiroy1@lcomotors.comOffice',

'4',

1088,

'Sales Rep'

);

Q4)Assign the new employee to the customer whose phone is 2125557413 .

Soln.

UPDATE customers

SET sales\_employee\_id = 15657

WHERE phone = '2125557413';

Q5)Write a SQL query to fetch shipped motorcycles.

Soln.

SELECT product\_name

FROM products p

LEFT JOIN orderdetails o ON p.product\_code = o.product\_code

LEFT JOIN orders os ON o.order\_id = os.order\_id

WHERE p.product\_line = 'Motorcycles'

AND os.status = 'shipped';

Q6)Write a SQL query to get details of all employees/salesmen in the office located in Sydney.

Soln.

SELECT CONCAT(first\_name, ' ', last\_name) as full\_name

FROM employees e

LEFT JOIN offices o ON e.office\_code = o.office\_code

WHERE city = 'Sydney';

Q7)How would you fetch the details of customers whose orders are in process?

Soln.

SELECT customer\_name

FROM customers c

LEFT JOIN orders o ON c.customer\_id = o.customer\_id

WHERE o.status = 'In Process';

Q8)How would you fetch the details of products with less than 30 orders?

Soln.

SELECT product\_name

FROM products p

LEFT JOIN orderdetails o ON p.product\_code = o.product\_code

WHERE o.quantity\_ordered < 30;

Q9)It is noted that the payment (check number OM314933) was actually 2575. Update the record.

Soln.

UPDATE payments

SET amount = 2575

WHERE check\_number = 'OM314933';

Q10)Fetch the details of salesmen/employees dealing with customers whose orders are resolved.

Soln.

SELECT employee\_id,

CONCAT(e.first\_name, ' ', e.last\_name) as full\_name

FROM employees e

LEFT JOIN customers c ON e.employee\_id = c.sales\_employee\_id

LEFT JOIN orders o ON c.customer\_id = o.customer\_id

WHERE o.status = 'Resolved';

Q11)Get the details of the customer who made the maximum payment.

Soln.

SELECT customer\_name

FROM customers c

LEFT JOIN payments p ON c.customer\_id = p.customer\_id

WHERE p.amount = (

SELECT MAX(amount)

FROM payments

);

Q12)Fetch list of orders shipped to France.

Soln.

SELECT o.order\_id,

c.customer\_name

FROM orders o

LEFT JOIN customers c ON o.customer\_id = c.customer\_id

WHERE o.status = 'shipped'

AND country = 'France';

Q13)How many customers are from Finland who placed orders.

Soln.

SELECT COUNT(c.customer\_id) as total\_count

FROM customers c

LEFT JOIN orders o ON c.customer\_id = o.customer\_id

WHERE c.country = 'Finland';

Q14)Get the details of the customer who made the maximum payment.

Soln.

SELECT c.customer\_name,

p.amount

FROM customers c

LEFT JOIN payments p ON c.customer\_id = p.customer\_id

ORDER BY p.amount DESC

LIMIT 10;

Q15)Get the details of the customer and payments they made between May 2019 and June2019.

SELECT c.customer\_name,

p.payment\_date,

p.amount

FROM customers c

LEFT JOIN payments p ON c.customer\_id = p.customer\_id

WHERE p.payment\_date BETWEEN '2019-05-01' AND '2019-06-30'

ORDER BY 2;

Q16)How many orders are shipped to Belgium in 2018?

Soln.

SELECT COUNT(o.order\_id) AS total\_count

FROM orders o

LEFT JOIN customers c ON o.customer\_id = c.customer\_id

WHERE country = 'Belgium'

AND YEAR(o.shipped\_date) = '2018';

Q17)Get the details of the salesman/employee with offices dealing with customers in Germany.

SELECT DISTINCT(e.employee\_id),

CONCAT(e.first\_name, ' ', e.last\_name) as full\_name,

e.job\_title

FROM employees e

LEFT JOIN customers c ON e.employee\_id = c.sales\_employee\_id

WHERE c.country = 'Germany';

Q18)The customer (id:496 ) made a new order today and the details are as follows:

Order id : 10426

Product Code: S12\_3148

Quantity : 41

Each price : 151

Order line number : 11

Order date : <today’s date>

Required date: <10 days from today>

Status: In Process

Soln.

INSERT INTO orderdetails (

order\_id,

product\_code,

quantity\_ordered,

each\_price,

order\_line\_number

)

VALUES (10426, 'S12\_3148', 41, 151, 11);

INSERT INTO orders (

order\_id,

order\_date,

required\_date,

status,

customer\_id

)

VALUES (

10426,

CURRENT\_DATE(),

(CURRENT\_DATE() + INTERVAL 10 DAY),

'In Process',

496

);

Q19)**Fetch details of employees who were reported for the payments made by the customers between June 2018 and July 2018.**

Soln.

SELECT e.employee\_id,

CONCAT(e.first\_name, ' ', e.last\_name) as full\_name

from employees e

LEFT JOIN customers c ON e.employee\_id = c.sales\_employee\_id

LEFT JOIN payments p ON c.customer\_id = p.customer\_id

WHERE p.payment\_date BETWEEN '2018-06-01' AND '2018-07-31';

Q20)A new payment was done by a customer(id: 119). Insert the below details.

Check Number : OM314944

Payment date : <today’s date>

Amount : 33789.55

Soln.

INSERT INTO payments (customer\_id, check\_number, payment\_date, amount)

VALUES (119, 'OM314944', CURRENT\_DATE(), 33789.55);

Q21)Get the address of the office of the employees that reports to the employee whose id is 1102.

Soln.

SELECT o.address\_line1,

o.address\_line2

FROM employees e

LEFT JOIN offices o ON e.office\_code = o.office\_code

WHERE e.reports\_to = 1102;

Q22)Get the details of the payments of classic cars.

Soln.

SELECT pa.customer\_id,

pa.check\_number,

pa.payment\_date,

pa.amount

FROM payments pa

LEFT JOIN orders o ON pa.customer\_id = o.customer\_id

LEFT JOIN orderdetails od ON o.order\_id = od.order\_id

LEFT JOIN products p ON od.product\_code = p.product\_code

WHERE p.product\_line = 'Classic Cars';

Q23)How many customers ordered from the USA?

Soln.

SELECT COUNT(c.customer\_id) AS total\_count

FROM customers c

LEFT JOIN orders o ON c.customer\_id = o.customer\_id

WHERE country = 'USA';

Q24)Get the comments regarding resolved orders.

Soln.

SELECT comments

FROM orders

WHERE status = 'Resolved';

Q25)Fetch the details of employees/salesmen in the USA with office addresses.

Soln.

SELECT e.employee\_id,

CONCAT(e.first\_name, ' ', e.last\_name) AS full\_name,

o.country

FROM employees e

LEFT JOIN offices o ON e.office\_code = o.office\_code

WHERE o.country = 'USA';

Q26)Fetch total price of each order of motorcycles. (Hint: quantity x price for each record).

Soln.

SELECT p.product\_name,

(o.quantity\_ordered \* o.each\_price) AS total\_cost

FROM orderdetails o

LEFT JOIN products p ON o.product\_code = p.product\_code

WHERE p.product\_line = 'Motorcycles';

Q27)Get the total worth of all planes ordered.

Soln.

SELECT SUM(o.quantity\_ordered \* o.each\_price) AS total\_cost

FROM orderdetails o

LEFT JOIN products p ON o.product\_code = p.product\_code

WHERE p.product\_line = 'Planes'

GROUP BY p.product\_line;

Q28)How many customers belong to France?

Soln.

SELECT COUNT(customer\_id) AS total\_count

FROM customers

WHERE country = 'FRANCE';

Q29)Get the payments of customers living in France.

Soln.

SELECT c.customer\_id,

p.check\_number,

p.amount,

p.payment\_date AS total\_count

FROM customers c

LEFT JOIN payments p ON c.customer\_id = p.customer\_id

WHERE c.country = 'FRANCE';

Q30)Get the office address of the employees/salesmen who report to employee 1143.

Soln.

SELECT o.address\_line1,

o.address\_line2

FROM offices o

LEFT JOIN employees e ON o.office\_code = e.office\_code

WHERE e.reports\_to = 1143;