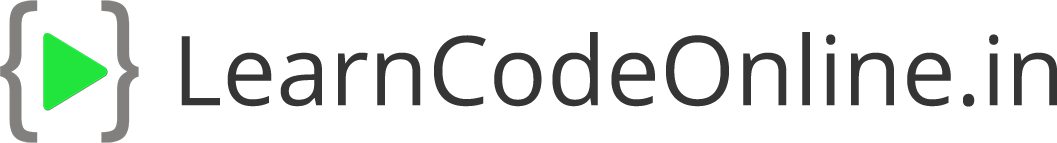
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**Course**: MySQL

**Difficulty:** Intense

**Instruction**: Import the given **lco\_motors.sql** file in phpmyadmin and then answer the following questions with mySQL queries.

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

**Ans: *SELECT \* FROM customers LEFT JOIN orders ON orders.customer\_id = customers.customer\_id WHERE orders.status = "Cancelled";***

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

**Ans: SELECT \* FROM customers LEFT JOIN payments ON payments.customer\_id=customers.customer\_id WHERE payments.amount BETWEEN 5000 AND 35000 ORDER BY payments.amount;**

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

EMP ID - 15657

First Name : Lakshmi

Last Name: Roy

Extension : x4065

Email: [lakshmiroy1@lcomotors.com](mailto:lakshmiroy1@lcomotors.com)

Office Code: 4

Reports To: 1088

Job Title: Sales Rep

**Ans: INSERT INTO `employees`(`employee\_id`, `last\_name`, `first\_name`, `extension`, `email`, `office\_code`, `reports\_to`, `job\_title`) VALUES (15657, "Roy", "Lakshmi", "x4065", "lakshmiroy1@lcomotors.com",4,1088, "Sales Rep");**

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

**Ans: UPDATE `customers` SET customers.sales\_employee\_id = 15657 WHERE customers.phone = 2125557413;**

**Q5)** Write a SQL query to fetch shipped motorcycles.

**Ans: SELECT \* FROM orders LEFT JOIN orderdetails ON orderdetails.order\_id=orders.order\_id LEFT JOIN products ON orderdetails.product\_code = products.product\_code WHERE products.product\_line = "Motorcycles" AND orders.status = "Shipped";**

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

**Ans: SELECT employees.employee\_id, employees.first\_name, employees.last\_name, employees.email, employees.extension, employees.job\_title, employees.office\_code FROM employees LEFT JOIN offices ON employees.office\_code=offices.office\_code WHERE offices.city="Sydney";**

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

**Ans: SELECT customers.customer\_id, customers.first\_name, customers.last\_name, customers.phone, customers.address\_line1, customers.address\_line2, customers.city, customers.state, customers.postal\_code, customers.country, customers.credit\_limit, orders.order\_id, orders.status FROM customers LEFT JOIN orders ON orders.customer\_id = customers.customer\_id WHERE orders.status = "In Process";**

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

**Ans: SELECT products.product\_code, products.product\_name, products.product\_scale, products.product\_vendor, products.product\_description, products.stock, products.buy\_price, products.mrp, productlines.product\_line,productlines.description AS productline\_description, orderdetails.quantity\_ordered, orderdetails.order\_id FROM products RIGHT JOIN productlines ON productlines.product\_line=products.product\_line LEFT JOIN orderdetails ON orderdetails.product\_code = products.product\_code WHERE orderdetails.quantity\_ordered < 30;**

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

**Ans: UPDATE `payments` SET `amount` = 2575 WHERE payments.check\_number = "OM314933";**

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

**Ans: SELECT DISTINCT employees.employee\_id, employees.first\_name ,employees.last\_name, employees.email, employees.job\_title, employees.extension, customers.customer\_id, orders.order\_id, orders.status FROM employees LEFT JOIN customers ON customers.sales\_employee\_id = employees.employee\_id RIGHT JOIN orders ON orders.customer\_id = customers.customer\_id WHERE orders.status = "Resolved";**

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

**Ans: SELECT \* FROM customers RIGHT JOIN payments ON customers.customer\_id = payments.customer\_id WHERE payments.amount = (SELECT MAX(amount) from payments);**

**Q12)** Fetch list of orders shipped to France.

**Ans: SELECT orders.order\_id, orders.order\_date, orders.required\_date, orders.shipped\_date, orders.status, orders.comments , orders.customer\_id, customers.country FROM orders LEFT JOIN customers ON customers.customer\_id = orders.customer\_id WHERE customers.country = "France" AND orders.status="Shipped";**

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

**Ans: SELECT customers.customer\_id, orders.order\_id, COUNT(customers.customer\_id) FROM customers RIGHT JOIN orders ON orders.customer\_id=customers.customer\_id WHERE customers.country = "Finland";**

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

**Ans: SELECT \* FROM customers RIGHT JOIN payments ON customers.customer\_id = payments.customer\_id WHERE payments.amount = (SELECT MAX(amount) from payments);**

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

**Ans: SELECT customers.customer\_id, customers.first\_name, customers.last\_name, customers.phone, customers.address\_line1, customers.address\_line2, customers.city, customers.state, customers.postal\_code, customers.country, customers.credit\_limit,payments.payment\_date FROM customers LEFT JOIN payments on payments.customer\_id = customers.customer\_id WHERE payments.payment\_date BETWEEN '2019-05-01' AND '2019-06-30';**

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

**Ans: SELECT COUNT(orders.order\_id) FROM orders INNER JOIN customers ON customers.customer\_id = orders.customer\_id WHERE customers.country = "Belgium" AND orders.shipped\_date BETWEEN '2019-01-01' AND '2019-12-31';**

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

**Ans: SELECT employees.employee\_id, employees.first\_name ,employees.last\_name, employees.email, employees.job\_title, employees.extension, customers.customer\_id, offices.office\_code, offices.address\_line1, offices.address\_line2, offices.phone, offices.city, offices.state, offices.country, offices.postal\_code, offices.territory FROM employees CROSS JOIN offices ON offices.office\_code=employees.office\_code LEFT JOIN customers on customers.sales\_employee\_id = employees.employee\_id WHERE customers.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

**Ans: Follow the step:**

**S1) INSERT INTO `orders`(`order\_id`, `order\_date`, `required\_date`, `status`,`customer\_id`) VALUES (10426, CURRENT\_DATE(), (CURRENT\_DATE() + INTERVAL 10 DAY), "In Process" , 496);**

**S2)INSERT INTO `orderdetails`(`order\_id`, `product\_code`, `quantity\_ordered`, `each\_price`, `order\_line\_number`) VALUES ( 10426 , "S12\_3148" , 41, 151, 11);**

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

**Ans: SELECT reported\_emp.employee\_id, reported\_emp.first\_name , reported\_emp.last\_name, reported\_emp.email, reported\_emp.job\_title, reported\_emp.extension , employees.employee\_id AS reported\_by\_employee, customers.customer\_id FROM employees JOIN employees reported\_emp ON reported\_emp.employee\_id = employees.reports\_to LEFT JOIN customers ON customers.sales\_employee\_id = employees.employee\_id RIGHT JOIN payments ON payments.customer\_id = customers.customer\_id WHERE payments.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

**Ans: 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.

**Ans: SELECT offices.office\_code, offices.address\_line1, offices.address\_line2, offices.phone, offices.city, offices.state, offices.country, offices.postal\_code, offices.territory FROM employees JOIN employees reports\_emp ON reports\_emp.employee\_id = employees.reports\_to RIGHT JOIN offices ON offices.office\_code = employees.office\_code WHERE employees.reports\_to = "1102";**

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

**Ans: SELECT payments.check\_number, payments.payment\_date, payments.amount, products.product\_name, products.product\_line , customers.customer\_id AS done\_by FROM payments LEFT JOIN customers ON customers.customer\_id = payments.customer\_id RIGHT JOIN orders ON orders.customer\_id = customers.customer\_id LEFT JOIN orderdetails ON orderdetails.order\_id = orders.order\_id LEFT JOIN products ON products.product\_code = orderdetails.product\_code WHERE products.product\_line = "Classic Cars";**

**Q23)** How many customers ordered from the USA?

**Ans: SELECT COUNT(\*) FROM customers LEFT JOIN orders ON orders.customer\_id = customers.customer\_id WHERE customers.country = "USA";**

**Q24)** Get the comments regarding resolved orders.

**Ans: SELECT orders.comments , orders.customer\_id FROM `orders` WHERE orders.status = "Resolved";**

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

**Ans:SELECT employees.employee\_id, employees.first\_name ,employees.last\_name, employees.email, employees.job\_title, employees.extension, offices.office\_code, offices.address\_line1, offices.address\_line2, offices.phone, offices.city, offices.state, offices.country, offices.postal\_code, offices.territory FROM employees LEFT JOIN offices ON offices.office\_code = employees.office\_code WHERE offices.country = "USA";**

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

**Ans: SELECT orderdetails.product\_code,products.product\_name, products.product\_line, orderdetails.quantity\_ordered , orderdetails.each\_price, orderdetails.quantity\_ordered\*orderdetails.each\_price AS total\_price FROM orderdetails LEFT JOIN products ON products.product\_code= orderdetails.product\_code WHERE products.product\_line = "Motorcycles";**

**Q27)** Get the total worth of all planes ordered.

**Ans: SELECT SUM(orderdetails.quantity\_ordered\*orderdetails.each\_price) AS total\_price FROM orderdetails LEFT JOIN products ON products.product\_code= orderdetails.product\_code WHERE products.product\_line = "Planes";**

**Q28)** How many customers belong to France?

**Ans: SELECT COUNT(\*) FROM customers WHERE customers.country = "France";**

**Q29)** Get the payments of customers living in France.

**Ans: SELECT customers.customer\_id, customers.first\_name, customers.last\_name, customers.phone, customers.address\_line1, customers.address\_line2, customers.city, customers.state, customers.postal\_code, customers.country, customers.credit\_limit, payments.payment\_date, payments.amount, payments.check\_number FROM customers INNER JOIN payments ON payments.customer\_id = customers.customer\_id WHERE customers.country="France";**

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

**Ans: SELECT DISTINCT offices.office\_code, offices.address\_line1, offices.address\_line2, offices.city, offices.phone, offices.state, offices.country, offices.postal\_code, offices.territory , employees.employee\_id FROM offices LEFT JOIN employees ON offices.office\_code= employees.office\_code WHERE employees.reports\_to = 1143;**