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Batch-B1

1. WAQ to add a constraint to salesman table that checks whether the commission is greater than equal to 2 and less than equal to 10.

->ALTER table salesman add CHECK (commission>=2 AND commission<=10);

2. WAQ to display salesman who are not from "Delhi", "Jaipur" or "Lucknow" using MySql IN operator.

->SELECT * from salesman where city not in ("Delhi","Jaipur","Lucknow");

3. WAQ to display names of customers who have ordered between 23-Oct-2021 and 27-Oct-2021 (inclusive).

->SELECT customer.cust_name
from customer ,orders
where customer.cust_id = orders.cust_id and
orders.ord_date>='2021-10-23' and orders.ord_date<='2021-10-27';

4. WAQ to display salesman who are from the same city and have same commission.

->SELECT * FROM salesman group by city, commission;

5. WAQ to display customers whose name contains the string "vi".

->SELECT * FROM customer WHERE cust_name LIKE ("%vi%");

6. WAQ to drop the foreign key constraints on Orders table.

->ALTER TABLE orders DROP FOREIGN KEY orders_ibfk_1;

->ALTER TABLE orders DROP FOREIGN KEY orders_ibfk_2;

7. Write queries to add new foreign keys in Orders table with name as "FK_custid" and "FK_salesid".

->ALTER TABLE orders ADD CONSTRAINT FK_custid FOREIGN KEY (cust_id)
REFERENCES customer(cust_id); ALTER TABLE orders
ADD CONSTRAINT FK_salesid
FOREIGN KEY (salesman_id) REFERENCES salesman(salesman_id);

8. WAQ to display all customers who have not ordered anything and order them in increasing order by name.

-> SELECT a.* from customer as a JOIN orders as b ON (a.cust_id=b.cust_id) where
b.ord_no IS null ORDER BY a.cust_name;

9. WAQ to display the count of customers from each city and order them by count in descending order.

->SELECT city,COUNT(cust_id) from customer GROUP BY city ORDER BY COUNT(cust_id) DESC;

10. WAQ to display details of the first order.

->SELECT * from orders LIMIT 1;

11. WAQ to display minimum and maximum orders taken by each salesman.

->SELECT MIN(b.pur_amt) as "min_ord",MAX(b.pur_amt) as "max_ord",a.name from salesman as a INNER JOIN orders as b on (a.salesman_id=b.salesman_id) GROUP by a.salesman_id;

12. WAQ to display the count, average and sum of order amount of each customer (give appropriate names to columns).

->SELECT a.cust_name,COUNT(b.pur_amt) AS Count,AVG(b.pur_amt) AS Average,SUM(b.pur_amt) AS Sum FROM orders AS b JOIN customer AS a ON (a.cust_id=b.cust_id) GROUP BY a.cust_id;

13. WAQ to delete all customers who have made any order.

->DELETE customer, orders FROM customer INNER JOIN orders on customer.cust_id=orders.cust_id;

14. WAQ to display name and commission of the salesman(s) who was/were involved in the order(s) with highest amount.

->SELECT a.name,a.commission from salesman as a INNER JOIN orders as b on (a.salesman_id=b.salesman_id) WHERE b.pur_amt=(SELECT MAX(pur_amt) FROM orders);

15. WAQ to display minimum (as min_ord) and maximum (as max_ord) orders of each customer.

->SELECT MIN(b.pur_amt) as "min_ord",MAX(b.pur_amt) as "max_ord",a.cust_name from customer as a INNER JOIN orders as b on (a.cust_id=b.cust_id) GROUP by a.cust_id;