



## COURSE 2 - MYSQL DATABASE

### ( Unit - 11 : Correlated Subqueries)

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### Instructions:

- Make sure to follow the standards and naming conventions while creating tables, columns, etc.
- Please create a database schema before starting SQL operations if the schema doesn't exist.
- Ensure you set the database scheme you want to work with before starting SQL operations.
- Make sure to include audit columns with default values when creating tables so the system will use them if the user provides no value.
- Be sure to include the necessary columns when creating tables to maintain the history of the event or transaction.
- **Use Sales Schema**

### Practice Questions

1. Select all customers who have made purchases in the sales period from Mar 1 to Mar 30
2. Select all products that belong to the 'Dairy' product group.
3. Select all sales records for products with unit prices greater



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than \$100.

4. Select all sales records with promotions named 'Promotion 1'.
5. Select all customers who made purchases with discounts in discount 1 category.
6. Select all products with unit prices not listed in the 'UPC001' unit price.
7. Select all customers who have not made any purchases.
8. Select all products not belonging to the 'Dairy' or 'Fruits' product groups.
9. List sales records with no associated promotions.
10. List customers who have not participated in any loyalty programs.
11. List products with no associated unit prices.
12. Select all sales records with no associated discounts.
13. Select all products not sold in the 'Location\_code = LC005'.
14. Select all products with prices greater than any product in the 'Cosmetics' category.
15. Select all customers who have made purchases with quantities greater than any other customer.
16. Select all products with prices greater than the maximum price of any product in the 'Shampoo' category.
17. Select all sales records with quantities greater than any other sales record's quantity.
18. Select all products with prices greater than any product in the 'Dairy' category and less than any product in the 'Cereals' category.



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19. Select all products with prices greater than any product in the 'Ice Cream' category but less than the maximum price of any product in the 'Vegetables' category.
20. Select all products with prices greater than the maximum price of any product in the 'pulses' category but less than the minimum price of any product in the 'Cereals' category.
21. Select all products with prices less than all products in the 'PG007' category.
22. Select all customers who have made purchases with quantities less than all other customers:
23. Select all products with prices less than all products in the 'Cereals' category
24. Select all sales records with quantities less than all other sales records
25. Select all customers with sales dates earlier than all other customers' first purchase dates
26. Select all products with prices less than the average price of all products.
27. Select all products with prices less than the maximum price of all products in the 'Rice' category
28. Select all products with prices less than the minimum price of all products in the 'Beverages' category.
29. Select all sales records with sales dates in the current year
30. Select all customers who have made purchases in every quarter of the '2010'



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31. Select all customers who have made purchases with loyalty programs.
32. Select all customers who have made purchases with a sales quantity greater than the average sales quantity of all customers:
33. Select all products that have been sold in the 'Perfume' category.
34. Select all customers who have not made any purchases.
35. Select all products that have never been sold.
36. Select all sales records with no associated loyalty program.
37. Select all products that have not been discounted.
38. Select all customers who have not purchased products from the 'Dairy' category.
39. Select all products that have never been part of a promotion.
40. Select all sales records with no associated discount code.