# Database Management System – I Practical List
# Practical – 12, 13 Task

| 12 | **Integrity Constraints** |
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**PART A:**
1. Apply a Unique key to the following attributes; **(A)**
   Customer_Detail → H_EmailID, Shipping_Detail → S_TrackingNumber, Category_Detail → Cat_Name.
2. Apply the Not Null and Primary key to the following attributes; **(A)**
   Customer_Detail → C_ID, Category_Detail → Cat_ID, Product_Detail → P_ID, Order_Detail → O_ID, Order_Item_Detail → O_I_ID, Order_Payment_Detail → OP_ID, Shipping_Detail → S_ID
3. Apply Foreign key; **(A)**

| Sr No. | Reference key table | Reference key attribute name | Primary key table | Primary key attribute name |
|---|---|---|---|---|
| 1. | Product_Detail | Cat_ID | Category_Detail | Cat_ID |
| 2. | Order_Detail | C_ID | Customer_Detail | C_ID |
| 3. | Order_Item_Detail | O_ID | Order_Detail | O_ID |
| 4. | Order_Item_Detail | P_ID | Product_Detail | P_ID |
| 5. | Order_Payment_Detail | O_ID | Order_Detail | O_ID |
| 6. | Order_Payment_Detail | C_ID | Customer_Detail | C_ID |
| 7. | Shipping_Detail | O_ID | Order_Detail | O_ID |
| 8. | Shipping_Detail | C_ID | Customer_Detail | C_ID |

| 13 | **Sub Query** |
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**PART A:**
1. Display name of the product which has minimum rating. **(A)**
2. Find the email address of the customer who made the highest total purchase. **(A)**
3. Find the product name and rating for minimum price product in the 'Electronics' category = 201. **(A)**
4. Get the product name with the highest stock quantity. **(A)**
5. List all O_ID placed by customers from 'Rajkot'. **(A)**
6. Find the Name and Contact No. of all customers who have made payments using 'COD'. **(A)**
7. List the name and ID of the product whose price is higher than the average price of products in their category. **(A)**

**PART B:**
8. Display the detail of order which is shipped using UPI payment method. **(B)**
9. Display total quantity of 'Laptop' sold. **(B)**
10. Display the details of customer who payment using COD. **(B)**

**PART C:**

11. Display customers who haven't placed an order. **(C)**
12. Display the Top-rated products in 'Electronics' **(C)**
13. Retrieve the most expensive order. **(C)**
14. Get the details of orders where the status is "Shipped" and the total amount is greater than ₹10,000. **(C)**
Find the names of products ordered by customer with ID 102. **(C)**