

Departments

| department_id | department_name | location |
|---------------|-----------------|-----------|
| 1 | Marketing | Mumbai |
| 2 | Finance | Delhi |
| 3 | Accounting | Bangalore |
| 4 | Research | Hyderabad |
| 5 | Human Resources | Chennai |
| 6 | Development | Bangalore |

Employees

| employee_id | employee_name | manager_id | designation | salary | commission | department_id |
|-------------|---------------|------------|----------------------|--------|------------|---------------|
| 1 | Rajesh Kumar | NULL | Senior Accountant | 20000 | NULL | 3 |
| 2 | Priya Sharma | 1 | HR Manager | 21000 | 1 | 2 |
| 3 | Amit Singh | 2 | Marketing Executive | 15000 | 0.5 | 4 |
| 4 | Sneha Gupta | 2 | Research Analyst | 25000 | 0.6 | 6 |
| 5 | Ananya Reddy | 1 | Software Engineer | 10000 | 1.2 | 1 |
| 6 | Suresh Tiwari | 1 | Financial Analyst | 12000 | 1.1 | 3 |
| 7 | Deepika Patel | 1 | HR Manager | 12000 | 0.1 | 2 |
| 8 | Vikram Verma | 3 | Research Analyst | 15000 | 0.8 | 4 |
| 9 | Neha Gupta | 2 | Research Assistant | 30000 | 0.8 | 5 |
| 10 | Manoj Singh | 4 | Software Engineer | 50000 | 2 | 6 |
| 11 | Pooja Sharma | 2 | Senior HR Executive | 35000 | 1.2 | 2 |
| 12 | Rahul Verma | 2 | Financial Controller | 27000 | 1.4 | 3 |
| 13 | Meera Singh | 4 | Marketing Manager | 26000 | 0.6 | 4 |
| 14 | Vishal Reddy | 5 | Software Architect | 55000 | 1.9 | 6 |
| 15 | Anjali Tiwari | 3 | Research Scientist | 37000 | NULL | 5 |

Product

| product_id | name | description | price | category | brand |
|------------|---------------------|--|----------|-------------|------------|
| 1 | Slim Fit Jeans | Blue slim fit jeans for men | 1500.00 | Clothing | Levi's |
| 2 | Printed T-shirt | Cotton t-shirt with graphic print | 2000.00 | Clothing | Nike |
| 3 | Running Shoes | Lightweight running shoes for women | 1800.00 | Footwear | Adidas |
| 4 | Backpack | Waterproof backpack with multiple compartments | 3000.00 | Accessories | Puma |
| 5 | Sunglasses | Stylish sunglasses with UV protection | 2500.00 | Accessories | Ray-Ban |
| 6 | Floral Print Dress | Flowy dress with floral print | 400.00 | Clothing | Forever 21 |
| 7 | Casual Sneakers | Canvas sneakers for casual wear | 300.00 | Footwear | Converse |
| 8 | Leather Wallet | Genuine leather wallet with card slots | 1500.00 | Accessories | Puma |
| 9 | Printed Scarf | Silk scarf with colorful print | 5000.00 | Accessories | Hermes |
| 10 | Smartwatch | Fitness tracker with heart rate monitor | 10000.00 | Electronics | Apple |
| 11 | Denim Jacket | Classic denim jacket for men | 450.00 | Clothing | Arrow |
| 12 | Ankle Boots | Leather ankle boots with buckle detail | 1400.00 | Footwear | Arrow |
| 13 | Crossbody Bag | Chic crossbody bag with chain strap | 1000.00 | Accessories | Arrow |
| 14 | Wireless Headphones | Bluetooth headphones with noise cancellation | 700.00 | Electronics | Sony |
| 15 | Printed Leggings | Stretchy leggings with colorful print | 1200.00 | Clothing | Athleta |
| 16 | T-shirt | Cotton t-shirt | 2000.00 | Clothing | Roadster |

Orders

| order_id | user_id | order_date | total_amount | status |
|----------|---------|---------------------|--------------|-----------|
| 101 | 1 | 2021-01-10 10:47:20 | 2000 | Pending |
| 201 | 2 | 2021-02-12 14:57:33 | 1500 | Shipped |
| 301 | 2 | 2023-05-14 14:22:33 | 7000 | Delivered |
| 401 | 4 | 2023-05-14 14:57:33 | 1000 | Pending |
| 501 | 3 | 2024-01-22 09:40:15 | 1000 | Shipped |
| 601 | 6 | 2024-02-26 01:34:26 | 2000 | Pending |
| 701 | 7 | 2024-02-14 19:26:01 | 1500 | Shipped |
| 801 | 5 | 2024-03-20 10:57:12 | 8000 | Delivered |
| 901 | 8 | 2024-03-14 14:55:32 | 9000 | Pending |
| 902 | 1 | 2024-03-14 14:55:32 | 5000 | Shipped |
| 903 | 3 | 2024-04-16 17:08:51 | 1000 | NULL |

Having Clause

1. WAQ to display the users who have placed more than 1 order.
2. WAQ to display the product categories that have an average price greater than 100.
3. WAQ to display the users whose average order amount is greater than 500.
4. WAQ to display the product categories where the minimum price of a product is greater than 200.
5. WAQ to display the users who have spent more than 2000 in total.
6. WAQ to display the users who have placed orders with a maximum total amount greater than 1000.
7. WAQ to display the brands and count of distinct product where the total number of distinct products is more than 1.
8. WAQ to display the categories where the average product price is less than 5000 but more than 1000.

SUBQUERIES

1. WAQ to display the names of employees whose department name is ending with "g".
2. WAQ to display the names of employees who is having the maximum salary in department name "Accounting".
3. WAQ to display the department names who is having the highest commission.
4. WAQ to display the names of employees who department name 2nd character is "i".
5. WAQ to display the names of employees who department id is same as "Sneha Gupta".
6. WAQ to display the names of employees who are working in "Finance" either "Research".
7. WAQ to display the names of employees who has salary greater than "Amit Singh".
8. WAQ to display the department names having atleast 2 "HR Manager".
9. WAQ to display the department names of an employees for whom the manager is not assigned.
10. WAQ to display the names of employees who are reporting to "Vikram Verma" manager.
11. WAQ to display the employees from "Development" and "Research" having atleast 2 managers.
12. WAQ to display the department names of employees whose name does not start with "S" and salary is in range 15000 and 25000.
13. WAQ to display the location of employees whose salary is minimum salary but salary is greater than 2000.
14. WAQ to display the location of employees in "Research" department.
15. WAQ to display the department location that having greater than 2 employees in it.