If you have any questions or suggestions regarding the notes, please feel free to reach out to me

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Consider a Books and Authors table. Books includes Book_ID, Author_ID, Title, and Sales, and Authors includes Author_ID, Author_Name.

Write a SQL query to find the authors who have sold more than 1000 books and have written more than 3 books.

```
SELECT a.Author_Name
FROM Authors as a
JOIN Books as b ON a.Author_ID = b.Author_ID
GROUP BY a.Author_Name
HAVING SUM(b.Sales) > 1000
AND COUNT(DISTINCT b.Book_ID) > 3;
```

list all the sales along with their corresponding product names, ensuring to include sales even if their corresponding product details are missing.

```
SELECT s.Sale_ID, s.Product_ID, s.Quantity_Sold, s.Sale_Date, p.Product_Name FROM Sales s

LEFT JOIN Products p ON s.Product_ID = p.Product_ID
```

You are given Employees and Departments tables. Employees includes Emp_ID, Name, Salary, and Dept_ID, and Departments includes Dept_ID, Dept_Name. Write a SQL query to find departments that pay an average salary higher than the average salary of all departments.

```
SELECT d.Dept_Name
FROM departments d
JOIN Employees e ON d.Dept_ID = e.Dept_ID
GROUP BY d.Dept_ID, d.Dept_Name
HAVING AVG(e.Salary) > (
SELECT AVG(Salary) FROM Employees
)
```

Given orders and customers tables, print each city where there are more than 10 customers and their order_quantity is more than 10000.

```
SELECT c.city
FROM customers c
JOIN orders o ON o.cid = c.cid
GROUP BY c.city
HAVING COUNT(c.cid) > 10
AND SUM(o.order_quantity) > 10000;
```

Given orders and customers tables, print customers who have total order quantity more than average of all customers order quantity SELECT c.customers_name FROM customers c JOIN orders o ON c.cid = o.cid GROUP BY c.customers name HAVING SUM(o.order_quantity) > (SELECT AVG(order_quantity) FROM orders) ______ Given students and courses tables, print course name and details of students enrolled into that course. Print NA if no student enrolled. SELECT c.course name, COALESCE(s.student name, 'NA') as student name FROM courses c LEFT JOIN students s ON s.sid = c.sid______ Get 4th higest salary from emp SELECT id, name FROM emp e1 where 4-1 = (SELECT count(DISTINCT salary) FROM emp e2 WHERE e2.salary > e1.salary) ______ Students and Courses table. Students has columns Student ID, Name, Course ID and courses has columns Course_ID, Course_Name, Credits. Write a query to list all courses and names of students enrolled in them, making sure to include courses with no students enrolled. Students -----Courses -----Student ID, Name, Course ID Course_ID, Course_Name, Credits SELECT c.course_name, s.student_name FROM Courses c LEFT JOIN Students s ON c.Course_ID = s.Course_ID

1. Write a SQL query to list all cities with at least one premium customer.

Order ID, Customer ID, Order Amount

Orders-----

Customers-----

Customer ID, Customer Name, City

2. Premium Customer is someone who has placed more than 10 orders with total order value exceeding \$10,000.

SELECT DISTINCT c.City
FROM Customers c
JOIN Orders o ON c.Customer_ID = o.Customer_ID
GROUP BY c.Customer_ID, c.City
HAVING COUNT(o.Customer_ID) > 10 AND SUM(o.Order_Amount) > 10000;

Get nth salary
SELECT DISTINCT(salary3)
FROM employee_info
ORDER BY salary DESC
LIMIT 2,1; // it will start fetch from 3 record and 1 row

SELECT * FROM (SELECT name, salary, dense_rank() over(ORDER BY salary DESC) as salary_rank FROM emplyoyee_info) as temp where salary_rank = 3;

Find duplicate rows in a table

SELECT *, count(empid)
FROM EMployeeInfo
GROUP BY empid
HAVING count(empid) > 1;

Calculate the even and odd records For Even SELECT * FROM EmployeeInfo WHERE MOD(EmpID,2) = 0;

For Odd SELECT * FROM EmployeeInfo WHERE MOD(EmpID,2) = 1;

How do you copy all rows of a table using SQL query CREATE TABLE EmpDetail AS SELECT * FROM EmployeeInfo

Copy only schema not record just false where condition CREATE TABLE EmpDetails AS SELECT * FROM EmployeeInfo WHERE 3=4;