EASTERN INTERNATIONAL UNIVERSITY

SCHOOL OF COMPUTING

AND INFORMATION TECHNOLOGY

≪📖≫

Practice Assignment 4

Practice Assignment – Quarter 4, 2023-2024

Course Name: Database

Course Code: CSE 301

Student's Full Name:

Student ID:

---

*Instruction***:**

* Students are allowing to write their answers (like SQL queries, Screen shot of outputs, etc.) in word file (Answer sheet) provided by instructor. After finishing the assignment, students must convert the word file (Answer sheet) into a PDF file. Finally, students upload the file in Moodle.

1. Give a database 'SaleManagerment':

Clients(**Client_Number**, Client_Name, Address, City, Pincode, Province, Amount_Paid, Amount_Due)

Product(**Product_Number**, Product_Name, Quantity_On_Hand, Quantity_Sell, Sell_Price, Cost_Price)

Salesman (**Salesman_Number**, Salesman _Name, Address, City, Pincode, Province, Salary, Sales_Target, Target_Achieve, Phone)

Salesorder(**Order_Number**, Order_Date, Client_Number, Salesman_Number, Delivery_Status, Delivery_Date, Order_Status)

Salesorderdetails(**Order_Number, Product_Number**, Order_Quantity)

> Query Syntax:
>
> SELECT col_1, function_name(col_2)
>
> FROM tablename
>
> WHERE condition
>
> GROUP BY column1, column2
>
> HAVING Condition
>
> ORDER BY column1, column2,.. ASC | DESC
>
> LIMIT [offset,] row_count;

Practice in Class

a) *Using Logical Operators (AND, OR, NOT, LIKE, IN, BETWEEN) and Comparison Operators (=, >, <, >=, <=, <>)*

1. Show the all-clients details who lives in "Binh Duong".

2. Find the client's number and client's name who do not live in "Hanoi".

3. Identify the names of all products with less than 25 in stock.

4. Find the product names where company making losses.

5. Find the salesman's details who are able achieved their target.

6. Select the names and city of salesman who are not received salary between 10000 and 17000.

7. Show order date and the clients_number of who bought the product between '2022-01-01' and '2022-02-15'.

b) *Finding strings in table*

Pattern	Meaning
'a%'	Match strings that start with 'a'
'%a'	Match strings with end with 'a'
'a%t'	Match strings that contain the start with 'a' and end with 't'.
'%wow%'	Match strings that contain the substring 'wow' in them at any position.
'_wow%'	Match strings that contain the substring 'wow' in them at the second position.
'_a%'	Match strings that contain 'a' at the second position.
'a_ _%'	Match strings that start with 'a and contain at least 2 more characters.

8. Find the names of cities in clients table where city name starts with "N"

9. Display clients' information whose names have "u" in third position.

10. Find the details of clients whose names have "u" in second last position.

11. Find the names of cities in clients table where city name starts with "D" and ends with "n".

12. Select all clients details who belongs from Ho Chi Minh, Hanoi and Da Lat.

13. Choose all clients data who do not reside in Ho Chi Minh, Hanoi and Da Lat.

c) *Using mySQL functions (Min(), Max(), COUNT(), AVG() and SUM())*

14. Find the average salesman's salary.

15. Find the name of the highest paid salesman.

16. Find the name of the salesman who is paid the lowest salary.

17. Determine the total number of salespeople employed by the company.

18. Compute the total salary paid to the company's salesman.

d) *Using Order by keyword, limit clause*

19. Select the salesman's details sorted by their salary.

20. Display salesman names and phone numbers based on their target achieved (in ascending order) and their city (in descending order).

21. Display 3 first names of the salesman table and the salesman's names in descending order.

22. Find salary and the salesman's names who is getting the highest salary.

23. Find salary and the salesman's names who is getting second lowest salary.

24. Display the first five sales orders in formation from the sales order table.

25. Display next ten sales order information from sales order table except first five sales order.

e) Using group by with having clause with aggregate functions (COUNT( ), MAX( ), MIN( ), SUM( ), AVG( )), order by.

26. If there are more than one client, find the name of the province and the number of clients in each province, ordered high to low.

27. Display information clients have number of sales order more than 1.

Practice to grade

Question : Using database 'SaleManagerment' to write SQL queries following:

28. Display the name and due amount of those clients who lives in "Hanoi"

```
308     -- 28. Display the name and due amount of those clients who live in "Hanoi".
309 •   SELECT Client_Name, Amount_Due
310     FROM Clients
311     WHERE City = 'Hanoi';
312
```

| | Filter Rows: | | Export: | Wrap Cell Content: |

Client_Name	Amount_Due
► Ho Nhu	150.0000
Tran Minh	1000.0000

.

29. Find the clients details who has due more than 3000

```
313     -- 29. Find the clients details who has due more than 3000.
314 •   SELECT *
315     FROM Clients
316     WHERE Amount_Due > 3000;
317
318     -- 30. Find the clients name and their province who has no due.
```

| Result Grid | Filter Rows: | | Edit: | Export/Import: | Wrap Cell Content: |

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
► C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C109	Duong Thanh	Phu Hoa	Ho Chi Minh	700011	Ho Chi Minh	12000.0000	8000.0000
* NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

30. Find the clients name and their province who has no due

```
318        -- 30. Find the clients name and their province who has no due.
319 •      SELECT Client_Name, Province
320        FROM Clients
321        WHERE Amount_Due = 0;
322
323        -- 31. Show details of all clients paying between 10,000 and 13,000.
324 •      SELECT *
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Client_Name	Province
▶ Tran Tuan	Binh Duong

.

31. Show details of all clients paying between 10,000 and 13,000

```
323        -- 31. Show details of all clients paying between 10,000 and 13,000.
324 •      SELECT *
325        FROM Clients
326        WHERE Amount_Paid BETWEEN 10000 AND 13000;
327
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
▶ C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C109	Duong Thanh	Phu Hoa	Ho Chi Minh	700011	Ho Chi Minh	12000.0000	8000.0000
* NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

32. Find the details of clients whose name is "Dat"

```
328        -- 32. Find the details of clients whose name is "Dat".
329 •      SELECT *
330        FROM Clients
331        WHERE Client_Name = 'Dat';
332
333        -- 33. Display all product name and their corresponding selling price.
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
* NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

4

33. Display all product name and their corresponding selling price

```
333    -- 33. Display all product name and their corresponding selling price.
334 •  SELECT Product_Name, Sell_Price
335    FROM Product;
336
337    -- 34. How many TVs are in stock?
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

Product_Name	Sell_Price
TV	1000.0000
Laptop	1500.0000
AC	400.0000
Modem	250.0000
Pen	12.0000
Mouse	100.0000
Keyboard	120.0000
Headset	50.0000

.

```
338 •  SELECT Quantity_On_Hand
339    FROM Product
340    WHERE Product_Name = 'TV';
341
342    -- 35. Find the salesman's details who are not able
343 •  SELECT *
```

Result Grid | Filter Rows: | Export: | Wrap Cell C

Quantity_On_Hand
10

34. How many TVs are in stock   ?

35. Find the salesman's details who are not able achieved their target

```
343 •  SELECT *
344    FROM Salesman
345    WHERE Target_Achieved < Sales_Target;
346
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: A

Salesman_Number	Salesman_Name	Address	City	Pincode	Province	Salary	Sales_Target	Target_Achieved	Phor
S001	Huu	Phu Tan	Ho Chi Minh	700002	Ho Chi Minh	15000.0000	50	35	0902
S003	Khoa	Phu Hoa	Thu Dau Mot	700051	Binh Duong	17500.0000	40	30	0904
S005	Deb	Hoa Phu	Thu Dau Mot	700051	Binh Duong	13500.0000	60	48	0903
S006	Tin	Chanh My	Da Lat	700032	Lam Dong	20000.0000	80	55	0907
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

36. Show all the product details of product number 'P1005'

```
347        -- 36. Show all the product details of product number 'P1005'.
348 •      SELECT *
349        FROM Product
350        WHERE Product_Number = 'P1005';
351
352        -- 37. Find the buying price and selling price of a Mouse.
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Product_Number	Product_Name	Quantity_On_Hand	Quantity_Sell	Sell_Price	Cost_Price
P1005	Pen	19	13	12.0000	8.0000
NULL	NULL	NULL	NULL	NULL	NULL

.

37. Find the buying price and sell price of a Mouse

```
352        37. Find the buying price and selling price of a Mou
353 •      SELECT Cost_Price, Sell_Price
354        FROM Product
355        WHERE Product_Name = 'Mouse';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conter

Cost_Price	Sell_Price
105.0000	100.0000

.

38. Find the salesman names and phone numbers who lives in Thu Dau Mot

```
357        -- 38. Find the salesman names and phone numbers who live in Thu Dau Mot.
358 •      SELECT Salesman_Name, Phone
359        FROM Salesman
360        WHERE City = 'Thu Dau Mot';
361
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Salesman_Name	Phone
Khoa	0904589632
Deb	0903213659

.

39. Find all the salesman's name and salary

```
362      -- 39. Find all the salesman's name and salary.
363 •    SELECT Salesman_Name, Salary
364      FROM Salesman;
365
366      -- 40. Select the names and salary of salesman who
367 •    SELECT Salesman_Name, Salary
         -
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

Salesman_Name	Salary
Huu	15000.0000
Phat	25000.0000
Khoa	17500.0000
Tien	16500.0000
Deb	13500.0000
Tin	20000.0000

40. Select the names and salary of salesman who are received between 10000 and 17000

```
366      -- 40. Select the names and salary of salesman who receive between 10000 and 17000.
367 •    SELECT Salesman_Name, Salary
368      FROM Salesman
369      WHERE Salary BETWEEN 10000 AND 17000;
370
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Salesman_Name	Salary
Huu	15000.0000
Tien	16500.0000
Deb	13500.0000

41. Display all salesman details who are received salary between 10000 and 20000 and achieved their target

```
371      -- 41. Display all salesman details who receive salary between 10000 and 20000 and achieved their targe
372 •    SELECT *
373      FROM Salesman
374      WHERE Salary BETWEEN 10000 AND 20000 AND Target_Achieved >= Sales_Target;
375
376      -- 42. Display all salesman details who receive salary between 20000 and 30000 and not achieved their t
         .
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Salesman_Number	Salesman_Name	Address	City	Pincode	Province	Salary	Sales_Target	Target_Achieved	Phone
S004	Tien	Phu Hoa	Dai An	700023	Binh Duong	16500.0000	70	72	0908654723
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

42. Display all salesman details who are received salary between 20000 and 30000 and not achieved their target

```
376        -- 42. Display all salesman details who receive salary between 20000 and 30000 and not achieved their t
377  •     SELECT *
378        FROM Salesman
379        WHERE Salary BETWEEN 20000 AND 30000 AND Target_Achieved < Sales_Target;
```

Salesman_Number	Salesman_Name	Address	City	Pincode	Province	Salary	Sales_Target	Target_Achieved	Phone
S006	Tin	Chanh My	Da Lat	700032	Lam Dong	20000.0000	80	55	0907853497

.

43. Find information about all clients whose names do not end with "h"

```
381        -- 43. Find information about all clients whose names do not end with "h".
382  •     SELECT *
383        FROM Clients
384        WHERE Client_Name NOT LIKE '%h';
385
```

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C102	Le Xuan	Phu Hoa	Thu Dau Mot	700051	Binh Duong	18000.0000	3000.0000
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C104	Tran Tuan	Phu Tan	Thu Dau Mot	700080	Binh Duong	8000.0000	0.0000
C105	Ho Nhu	Chanh My	Hanoi	700005	Hanoi	7000.0000	150.0000
C106	Tran Hai	Phu Hoa	Ho Chi Minh	700002	Ho Chi Minh	7000.0000	1300.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C108	Nguyen Sy	Tan An	Da Lat	700032	Lam Dong	15000.0000	1000.0000

.

44. Find client names whose second letter is 'r' or second last letter 'a'

```
386     -- 44. Find client names whose second letter is 'r' or second last letter 'a'.
387  •  SELECT Client_Name
388     FROM Clients
389     WHERE Client_Name LIKE '_r%' OR Client_Name LIKE '%a_';
390
391     -- 45. Select all clients where the city name starts with "D" and at least 3 characters
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Client_Name
Mai Xuan
Le Xuan
Trinh Huu
Tran Tuan
Tran Hai
Tran Minh

.

45. Select all clients where the city name starts with "D" and at least 3 characters in length

```
391     -- 45. Select all clients where the city name starts with "D" and at least 3 characters in length.
392  •  SELECT *
393     FROM Clients
394     WHERE City LIKE 'D%' AND LENGTH(City) >= 3;
395
396     -- 46. Select the salesman name, salaries and target achieved sorted by their target_achieved in desc
397  •  SELECT Salesman_Name, Salary, Target_Achieved
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C108	Nguyen Sy	Tan An	Da Lat	700032	Lam Dong	15000.0000	1000.0000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

46. Select the salesman name, salaries and target achieved sorted by their target_achieved in

```
396        -- 46. Select the salesman name, salaries and target achieved
397 •      SELECT Salesman_Name, Salary, Target_Achieved
398        FROM Salesman
399        ORDER BY Target_Achieved DESC;
400
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Salesman_Name	Salary	Target_Achieved
Phat	25000.0000	110
Tien	16500.0000	72
Tin	20000.0000	55
Deb	13500.0000	48
Huu	15000.0000	35
Khoa	17500.0000	30

descending order   .

47. Select the salesman's details sorted by their sales_target and target_achieved in ascending order

```
402 •      SELECT *
403        FROM Salesman
404        ORDER BY Sales_Target ASC, Target_Achieved ASC;
405
406        -- 48. Select the salesman's details sorted ascending by their salary and descending by achieved tar
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

Salesman_Number	Salesman_Name	Address	City	Pincode	Province	Salary	Sales_Target	Target_Achieved	Ph
S003	Khoa	Phu Hoa	Thu Dau Mot	700051	Binh Duong	17500.0000	40	30	09(
S001	Huu	Phu Tan	Ho Chi Minh	700002	Ho Chi Minh	15000.0000	50	35	09(
S005	Deb	Hoa Phu	Thu Dau Mot	700051	Binh Duong	13500.0000	60	48	09(
S004	Tien	Phu Hoa	Dai An	700023	Binh Duong	16500.0000	70	72	09(
S006	Tin	Chanh My	Da Lat	700032	Lam Dong	20000.0000	80	55	09(
S002	Phat	Tan An	Hanoi	700005	Hanoi	25000.0000	100	110	09(
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NUL

.

48. Select the salesman's details sorted ascending by their salary and descending by achieved target

```
406      -- 48. Select the salesman's details sorted ascending by their salary and descending by achieved targ
407  •   SELECT *
408      FROM Salesman
409      ORDER BY Salary ASC, Target_Achieved DESC;
410
411      -- 49. Display salesman names and phone numbers in descending order based on their sales target.
412  •   SELECT Salesman_Name, Phone
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Salesman_Number	Salesman_Name	Address	City	Pincode	Province	Salary	Sales_Target	Target_Achieved	Pho
S003	Khoa	Phu Hoa	Thu Dau Mot	700051	Binh Duong	17500.0000	40	30	0904
S001	Huu	Phu Tan	Ho Chi Minh	700002	Ho Chi Minh	15000.0000	50	35	0902
S005	Deb	Hoa Phu	Thu Dau Mot	700051	Binh Duong	13500.0000	60	48	0903
S004	Tien	Phu Hoa	Dai An	700023	Binh Duong	16500.0000	70	72	0908
S006	Tin	Chanh My	Da Lat	700032	Lam Dong	20000.0000	80	55	0907
S002	Phat	Tan An	Hanoi	700005	Hanoi	25000.0000	100	110	0903
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

49. Display salesman names and phone numbers in descending order based on their sales target

```
410
411      -- 49. Display salesman names and phone numbers in descending order based on their sal
412  •   SELECT Salesman_Name, Phone
413      FROM Salesman
414      ORDER BY Sales_Target DESC;
415
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Salesman_Name	Phone
Phat	0903216542
Tin	0907853497
Tien	0908654723
Deb	0903213659
Huu	0902361123
Khoa	0904589632

.

50. Display the product name, cost price, and sell price sorted by quantity in hand

```
416        -- 50. Display the product name, cost price, and sell price sorted by quantity in hand.
417 •      SELECT Product_Name, Cost_Price, Sell_Price
418        FROM Product
419        ORDER BY Quantity_On_Hand ASC;
420
421        -- 51. Retrieve the clients' names in ascending order.
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ‡A

Product_Name	Cost_Price	Sell_Price
Mouse	105.0000	100.0000
TV	800.0000	1000.0000
Laptop	1100.0000	1500.0000
Pen	8.0000	12.0000
Modem	230.0000	250.0000
AC	300.0000	400.0000
Keyboard	90.0000	120.0000
Headset	40.0000	50.0000

.

51. Retrieve the clients' names in ascending order

```
421        -- 51. Retrieve the clients' names in ascending order.
422 •      SELECT Client_Name
423        FROM Clients
424        ORDER BY Client_Name ASC;
425
426        -- 52. Display client information based on order by their city.
427 •      SELECT *
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ‡A

Client_Name
Duong Thanh
Ho Nhu
Le Xuan
Mai Xuan
Nguyen Sy
Nguyen Thanh
Tran Hai
Tran Minh

.

52. Display client information based on order by their city

```
427 •   SELECT *
428     FROM Clients
429     ORDER BY City ASC;
430
431     -- 53. Display client information based on order by their address and city.
432 •   SELECT *
433     FROM Clients
```

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C108	Nguyen Sy	Tan An	Da Lat	700032	Lam Dong	15000.0000	1000.0000
C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C105	Ho Nhu	Chanh My	Hanoi	700005	Hanoi	7000.0000	150.0000
C110	Tran Minh	Phu My	Hanoi	700005	Hanoi	9000.0000	1000.0000
C106	Tran Hai	Phu Hoa	Ho Chi Minh	700002	Ho Chi Minh	7000.0000	1300.0000
C109	Duong Thanh	Phu Hoa	Ho Chi Minh	700011	Ho Chi Minh	12000.0000	8000.0000

.

53. Display client information based on order by their address and city

```
431     -- 53. Display client information based on order by their address and city.
432 •   SELECT *
433     FROM Clients
434     ORDER BY Address ASC, City ASC;
435
436     -- 54. Display client information based on their city, sorted high to low based on amou
```

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
C105	Ho Nhu	Chanh My	Hanoi	700005	Hanoi	7000.0000	150.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C106	Tran Hai	Phu Hoa	Ho Chi Minh	700002	Ho Chi Minh	7000.0000	1300.0000
C109	Duong Thanh	Phu Hoa	Ho Chi Minh	700011	Ho Chi Minh	12000.0000	8000.0000
C102	Le Xuan	Phu Hoa	Thu Dau Mot	700051	Binh Duong	18000.0000	3000.0000
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C110	Tran Minh	Phu My	Hanoi	700005	Hanoi	9000.0000	1000.0000

Clients 30

.

54. Display client information based on their city, sorted high to low based on amount due

```
436     -- 54. Display client information based on their city, sorted high to low based on amount due
437  ●  SELECT *
438     FROM Clients
439     ORDER BY City ASC, Amount_Due DESC;
```

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C108	Nguyen Sy	Tan An	Da Lat	700032	Lam Dong	15000.0000	1000.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C110	Tran Minh	Phu My	Hanoi	700005	Hanoi	9000.0000	1000.0000
C105	Ho Nhu	Chanh My	Hanoi	700005	Hanoi	7000.0000	150.0000
C109	Duong Thanh	Phu Hoa	Ho Chi Minh	700011	Ho Chi Minh	12000.0000	8000.0000
C106	Tran Hai	Phu Hoa	Ho Chi Minh	700002	Ho Chi Minh	7000.0000	1300.0000

.

55. Display last five sales order in formation from sales order table

```
441     -- 55. Display last five sales order information from the sales order table.
442  ●  SELECT *
443     FROM SalesOrder
444     ORDER BY Order_Number DESC
445     LIMIT 5;
```

Order_Number	Order_Date	Client_Number	Salesman_Number	Delivery_Status	Delivery_Date	Order_Status
O20014	2022-05-16	C110	S001	On Way	NULL	Successful
O20013	2022-05-16	C109	S001	Ready to Ship	NULL	In Process
O20012	2022-05-12	C108	S004	On Way	NULL	Successful
O20011	2022-05-08	C107	S005	Ready to Ship	NULL	Cancelled
O20010	2022-04-29	C106	S006	Delivered	2022-05-08	Successful
NULL	NULL	NULL	NULL	NULL	NULL	NULL

.

56. Count the pincode in client table

```
447     -- 56. Count the pincode in the client table.
448  ●  SELECT COUNT(DISTINCT Pincode) AS Pincode_Count
449     FROM Clients;
450
451     -- 57. How many clients are living in Binh Duong?
```

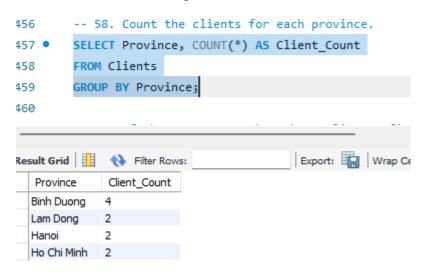| Pincode_Count |
|---|
| 8 |

.

57. How many clients are living in Binh Duong

```
451         -- 57. How many clients are living in Binh Duong?
452 ●       SELECT COUNT(*) AS Client_Count
453         FROM Clients
454         WHERE Province = 'Binh Duong';
455
456         -- 58. Count the clients for each province.
457 ●       SELECT Province, COUNT(*) AS Client_Count
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

Client_Count
▶ 4

?

58. Count the clients for each province.

```
456         -- 58. Count the clients for each province.
457 ●       SELECT Province, COUNT(*) AS Client_Count
458         FROM Clients
459         GROUP BY Province;
460
```

Result Grid | Filter Rows: | Export: | Wrap Ce

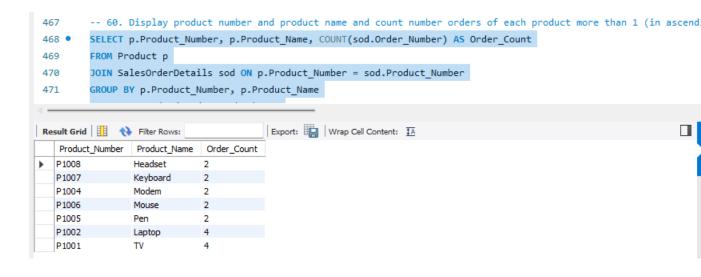| Province	Client_Count
Binh Duong	4
Lam Dong	2
Hanoi	2
Ho Chi Minh	2

59. If there are more than three clients, find the name of the province and the number of clients in each province

```
461         -- 59. If there are more than three clients, find the name of the province and the number of clients in
462 ●       SELECT Province, COUNT(*) AS Client_Count
463         FROM Clients
464         GROUP BY Province
465         HAVING COUNT(*) > 3;
466
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Province	Client_Count
▶ Binh Duong	4

.

60. Display product number and product name and count number orders of each product more than 1 (in ascending order)

15

```
467     -- 60. Display product number and product name and count number orders of each product more than 1 (in ascend:
468 •   SELECT p.Product_Number, p.Product_Name, COUNT(sod.Order_Number) AS Order_Count
469     FROM Product p
470     JOIN SalesOrderDetails sod ON p.Product_Number = sod.Product_Number
471     GROUP BY p.Product_Number, p.Product_Name
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

Product_Number	Product_Name	Order_Count
P1008	Headset	2
P1007	Keyboard	2
P1004	Modem	2
P1006	Mouse	2
P1005	Pen	2
P1002	Laptop	4
P1001	TV	4

.

61. Find products which have more quantity on hand than 20 and less than the sum of average.

```
475     -- 61. Find products which have more quantity on hand than 20 and less than the sum of average.
476 •   SELECT *
477     FROM Product
478     WHERE Quantity_On_Hand > 20
479     AND Quantity_On_Hand < (SELECT SUM(Quantity_On_Hand) / COUNT(*) FROM Product);
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: A

Product_Number	Product_Name	Quantity_On_Hand	Quantity_Sell	Sell_Price	Cost_Price
P1003	AC	23	10	400.0000	300.0000
P1004	Modem	22	16	250.0000	230.0000
NULL	NULL	NULL	NULL	NULL	NULL