LAB# 03

Objective:

Further Exploration of Select Statement

Operator Precedence:

The operator precedence in sql is as: ***, /,+,-**

Query

select ename, sal, 12*sal+100 from
emp;

Output

ENAME	SAL	12*SAL+100
SMITH	800	9700
ALLEN	1600	19300

Note: NULL values in an arithmetic expression result to a NULL

Task 1: Write a query to produce the following output from Products table.

ProductName	Price	0.25*Price+Price
Chais	18	22.5
Chang	19	23.75

Alias

SQL aliases are used to give a database table, or a column in a table, a temporary name.

Note: It requires double quotation marks or square brackets if the column name contains spaces.

Query

SELECT CustomerName AS Customer, ContactName AS [Contact Person]
FROM Customers;

Task 2 Write and test the above query.

Between Operator

It is used to display row based on a range of values.

Syntax : SELECT *column_name(s)* FROM *table_name* WHERE *column_name* BETWEEN *value1* AND *value2;*

Task 3 Display the records from customers table ranging Customers ids from 20 to 40.

In operator

It is used to test values in list.

Syntax : SELECT *column_name(s)* FROM *table_name* WHERE *column_name* IN (*value1*,*value2*,...);

Task 4 Display the records from customers table of those who belong to the cities Paris, London & Berlin.

LIKE Operator

This operator is used to perform wild card searches.

Syntax: SELECT *column_name(s)* FROM *table_name* WHERE *column_name* LIKE *pattern*;

Task 5 Display the records from customers table of Persons who contains A in their name at 4th Position.

NOT Operator

If we want to deselect some particular entries, conditional searching.

Task 6 Study and perform the following query.

SELECT CustomerName , Country
from Customers
where Country NOT IN ('UK' , 'Germany')
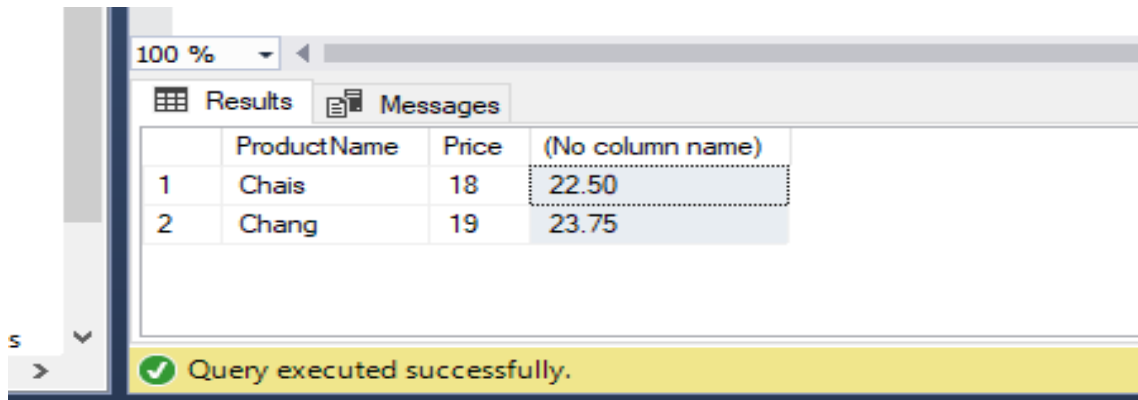
Lab Tasks :

Task 1 :

(Query Text)

```
Create Table Products(ProductName varchar(15),Price int )

Insert into Products (ProductName,Price) values ('Chais',18),('Chang',19)

select ProductName, Price, 0.25*Price+Price from Products;
```

(Query Output)

	ProductName	Price	(No column name)
1	Chais	18	22.50
2	Chang	19	23.75

100 %

Results Messages

✅ Query executed successfully.

Task 2 :

(Query Text)

```
SELECT CustomerName AS Customer, Contact AS [Contact Person]
                    FROM Customers;
```

(Query Output)

	Customer	Contact Person
1	Harry	4916
2	Shafi	13345
3	Allen	98334556
4	Zaman	46673
5	Fresco	94523
6	Shakur	81234
7	Samoa	79444
8	Samuel	7245234
9	Shawn	21288
10	Jigping	93211
11	Smith	5645
12	Harry	985236
13	Trevor	321495
14	Bery	87460
15	Hammad	95333
16	Mandes	8700
17	Sam	9820374
18	Micheal	87180
19	Frosty	78429

Query executed successfully.

Task 3 :

(Query Text)

```
SELECT CustomerName,Contact,Country,cities  FROM Customers   WHERE Ids IN
   (20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40)
```

(Query Output)

	CustomerName	Contact	Country	cities
1	Max	78463	GREECE	Athens
2	Hawks	213985	GUYANA	GeorgeTown
3	Josh	84554	HUNGARY	Budapest
4	Zahid	784401	IRAN	Tehran
5	Kenndy	457212	IRELAND	Dublin
6	Sandhu	8944001	INDONESIA	Jakarta
7	Picasso	444101	JAMAICA	Kingston
8	lin	32101	Japan	Tokyo
9	George	4243	Italy	Rome
10	Scott	1254952	LEBANON	Beirut
11	Floran	451821	Germany	Berlin
12	Chriss	3652	MEXICO	Mexico City
13	Shoib	56411...	MALAYSIA	Kuala Lam...
14	Sandhu	33201	NEPAL	Khatmandu
15	David	8565	NORWAY	Oslo
16	Iris	63221...	NEW ZEA...	Wellington
17	Popua	413247	POLAND	Warsaw
18	Travis	124551	Australia	Mellbourne
19	Andreas	56547...	RUSSIA	Moscow
20	Cerry	66547...	SAINT LU...	Castries
21	Fahad	5441232	Saudia Ar...	Riyadh

✅ Query executed successfully.

Task 4 :

(Query Text)

```
SELECT Ids,CustomerName,Contact,Country FROM Customers WHERE cities = 'Berlin' OR cities =
'London' OR cities = 'Paris'
```

(Query Output)

	Ids	CustomerName	Contact	Country	cities
1	1	Harry	4916	Germany	Berlin
2	9	Shawn	21288	UK	London
3	30	Floran	451821	Germany	Berlin
4	41	Bairon	4916	Germany	Berlin
5	42	Xaviar	13345	France	Paris
6	43	Heather	98334556	England	London
7	44	Sammy	46673	France	Paris
8	45	Christiana	94523	Germany	Berlin
9	46	Shakur	81234	Englnad	London

Query executed successfully.

Task 5 :

(Query Text)

```sql
SELECT * FROM Customers WHERE CustomerName LIKE '___a%';
```

(Query Output)

	Ids	CustomerName	Contact	Country	cities
1	4	Zaman	46673	AZERBAIJAN	Baku
2	26	Picasso	444101	JAMAICA	Kingston
3	40	Fahad	5441232	Saudia Arabia	Riyadh

Query executed successfully.

Task 5 :

(Query Text)

```sql
SELECT CustomerName , Country from Customers
where Country NOT IN ('UK' , 'Germany')
```

100 % ▾ ◀		
⊞ Results	▤ Messages	
	CustomerName	Country
1	Shafi	AFGHANISTAN
2	Allen	AUSTRIA
3	Zaman	AZERBAIJAN
4	Fresco	ALBANIA
5	Shakur	BANGLADESH
6	Samoa	BARBADOS
7	Samuel	BELGIUM
8	Jigping	CHINA
9	Smith	COLOMBIA
10	Harry	CROATIA
11	Trevor	COSTA RICA
12	Bery	CHILE
13	Hammad	EGYPT

✅ Query executed successfully.

14	Mandes	ESTONIA
15	Sam	ECUADOR
16	Micheal	ETHIOPIA
17	Frosty	GHANA
18	Max	GREECE
19	Hawks	GUYANA
20	Josh	HUNGARY
21	Zahid	IRAN
22	Kenndy	IRELAND
23	Sandhu	INDONESIA
24	Picasso	JAMAICA
25	lin	Japan

✅ Query executed successfully.

26	George	Italy
27	Scott	LEBANON
28	Chriss	MEXICO
29	Shoib	MALAYSIA
30	Sandhu	NEPAL
31	David	NORWAY
32	Iris	NEW ZEALA…
33	Popua	POLAND
34	Travis	Australia
35	Andreas	RUSSIA
36	Cerry	SAINT LUCIA
37	Fahad	Saudia Arabia
38	Xaviar	France
39	Heather	England
40	Sammy	France
41	Shakur	Englnad

✅ Query executed successfully.