

SQL - GROUPING and SORTING Practice

```
=====
=====
CREATE TABLE DB7 (SN CHAR (20), CompName VARCHAR (30), Profit VARCHAR
(200), Revenue VARCHAR(200))
```

```
=====
=====
INSERT INTO DB7 (SN, CompName, Profit, Revenue)
VALUES (1, 'ALpha', 2700, 3600), (2, 'Beta', 3400, 4800), (3,'Cos', 4700,
5900), (4, 'Delta', 4300, 6200), (5, 'Eagle', 6600,
8700), (6, 'Fab', 4500, 7900), (7, 'Gent', 5699, 9800), (8,'Gone', 4644,
9866), (9, 'Intel', 4367, 5634), (10, 'Julia', 3645, 8756)
```

```
=====
=====
SELECT * FROM DB7
```

SN	COMPNAME	PROFIT	REVENUE
1	ALpha	2700	3600
2	Beta	3400	4800
3	Cos	4700	5900
4	Delta	4300	6200
5	Eagle	6600	8700
6	Fab	4500	7900
7	Gent	5699	9800
8	Gone	4644	9866
9	Intel	4367	5634
10	Julia	3645	8756

All The Entries with Profit starting with 4:

```
SELECT * FROM DB7
WHERE Profit LIKE '4%'
```

SN	COMPNAME	PROFIT	REVENUE
3	Cos	4700	5900
4	Delta	4300	6200
6	Fab	4500	7900
8	Gone	4644	9866
9	Intel	4367	5634

=====

To SELECT ONLY COMPNAME:

SELECT CompName FROM DB7

COMPNAME

ALpha

Beta

Cos

Delta

Eagle

Fab

Gent

Gone

Intel

Julia

TO ORDER COMPNAME Alphabetically in Descending

Method 1:

SELECT CompName FROM DB7

ORDER BY CompName DESC

COMPNAME

Julia

Intel

Gone

Gent

Fab

Eagle

Delta

Cos

Beta

ALpha

Method 2:

SELECT CompName FROM DB7

Order by 1 DESC

Run time (seconds): 0.006

Status : succeeded

COMPNAME

Julia

Intel

Gone

Gent

Fab

Eagle

Delta
Cos
Beta
ALpha

=====
=====

TO SELECT Specific Columns

SELECT SN, CompName, Profit FROM DB7

Run time (seconds): 0.006
Status : succeeded

SN	COMPNAME	PROFIT
1	ALpha	2700
2	Beta	3400
3	Cos	4700
4	Delta	4300
5	Eagle	6600
6	Fab	4500
7	Gent	5699
8	Gone	4644
9	Intel	4367
10	Julia	3645

=====
=====

To Select the Profit starting with 4 and CompName starting with G

SELECT Profit FROM DB7
WHERE Profit LIKE '4%' and CompName LIKE 'G%'

Run time (seconds): 0.005
Status : succeeded

PROFIT

4644

CREATED NEW TABLE To Explain FURTHER SCRIPTS

```
CREATE TABLE DB8 (SN CHAR (20), CompName VARCHAR (30), Country VARCHAR (20), Profit VARCHAR (200), Revenue VARCHAR(200))
```

```
Run time (seconds): 0.070
Status              : succeeded
```

```
=====
=====
INSERT INTO DB8 (SN, CompName, Country, Profit, Revenue)
VALUES (1, 'ALpha', 'PAK', 2700, 3600), (2, 'Beta', 'IND', 3400, 4800),
(3, 'Cos', 'BD', 4700, 5900), (4, 'Delta', 'NZ', 4300, 6200), (5, 'Eagle',
'NZ', 6600,
8700), (6, 'Fab', 'PAK', 6500, 7900), (7, 'Gent', 'IND', 5699, 9800),
(8, 'Gone', 'NZ', 4644, 9866), (9, 'Intel', 'UK', 4367, 5634), (10,
'Julia', 'IND', 3645, 8756)
```

```
Run time (seconds): 0.008
Status              : succeeded
```

```
=====
=====
SELECT * FROM DB8
```

```
Run time (seconds): 0.007
Status              : succeeded
```

SN	COMPNAME	COUNTRY	PROFIT	REVENUE
1	ALpha	PAK	2700	3600
2	Beta	IND	3400	4800
3	Cos	BD	4700	5900
4	Delta	NZ	4300	6200
5	Eagle	NZ	6600	8700
6	Fab	PAK	6500	7900
7	Gent	IND	5699	9800
8	Gone	NZ	4644	9866
9	Intel	UK	4367	5634
10	Julia	IND	3645	8756

```
SELECT CompName, Country, Revenue FROM DB8
ORDER by 2
```

```
Run time (seconds): 0.006
Status              : succeeded
```

COMPNAME	COUNTRY	REVENUE
Cos	BD	5900
Beta	IND	4800
Gent	IND	9800
Julia	IND	8756
Delta	NZ	6200
Eagle	NZ	8700

Gone	NZ	9866
ALpha	PAK	3600
Fab	PAK	7900
Intel	UK	5634

To Extract Distinct Country from the result set:

```
SELECT DistINCT Country FROM DB8
```

Run time (seconds): 0.006

Status : succeeded

COUNTRY

BD

IND

NZ

PAK

UK

To have the count of CompName belonging to each country:

METHOD 1:

```
SELECT Country, COUNT(CompName) FROM DB8
```

Group by Country

Run time (seconds): 0.005

Status : succeeded

COUNTRY 2

----- -

BD 1

IND 3

NZ 3

PAK 2

UK 1

=====

=====

Method 2:

```
SELECT Country, COUNT(CompName) as Count FROM DB8
```

Group by Country

Run time (seconds): 0.006

Status : succeeded

COUNTRY COUNT

BD 1

IND 3

NZ 3

PAK 2

UK 1

To have the count of countries from where there are more than 2 CompName:

SELECT Country, COUNT(CompName) as Count FROM DB8
Group by Country Having Count (Country) > 2

Run time (seconds): 0.007
Status : succeeded

COUNTRY	COUNT
IND	3
NZ	3

TO Have the Country Count having Revenue more than 4000

SELECT Revenue, COUNT (Country) as COUNT FROM DB8
GROUP BY Revenue
HAVING (Revenue > 4000)

Run time (seconds): 0.005
Status : succeeded

REVENUE	COUNT
4800	1
5634	1
5900	1
6200	1
7900	1
8700	1
8756	1
9800	1
9866	1

To know the number of Revenue Values from NZ

SELECT Country, count (Revenue) FROM DB8
Group by Country
HAVING (Country = 'NZ')

Run time (seconds): 0.004
Status : succeeded

COUNTRY	2
NZ	3