

Practical Notes Of MYSQL

```
mysql> CREATE DATABASE DB2;  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SHOW DATABASES;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| cyber_cafe |  
| db1 |  
| db2 |  
| mysql |  
| students |  
| test |  
+-----+  
7 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE STU(RNO INT, NAME CHAR(20));  
ERROR 1050 (42S01): Table 'stu' already exists  
mysql> USE DB2;  
Database changed  
mysql> CREATE TABLE STU(RNO INT, NAME CHAR(20));  
Query OK, 0 rows affected (0.13 sec)
```

```
mysql> INSERT INTO STU VALUES(4, 'SAKSHAM');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> #values / value BOTH WORKS IN INSERT COMMAND  
#HOWEVER VALUES IS BETTER AND UNIVERSAL
```

```
mysql> INSERT INTO STU VALUES(6, 'DARSHIL');  
Query OK, 1 row affected (0.11 sec)
```

```
mysql> SELECT * FROM STU;  
+-----+-----+  
| RNO | NAME |  
+-----+-----+  
| 4 | SAKSHAM |  
| 6 | DARSHIL |  
+-----+-----+  
2 rows in set (0.00 sec)
```

```
mysql> select database();  
+-----+  
| database() |  
+-----+  
| NULL |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| cyber_cafe |
```

```

| db1          |
| db2          |
| mysql        |
| students     |
| test         |
+-----+
7 rows in set (0.00 sec)

```

```

mysql> notee
mysql> use db2;
Database changed
mysql> show tables;

```

```

+-----+
| Tables_in_db2 |
+-----+
| stu           |
+-----+
1 row in set (0.46 sec)

```

```

mysql> select * from stu;

```

```

+-----+-----+
| RNO  | NAME    |
+-----+-----+
| 4    | SAKSHAM |
| 6    | DARSHIL |
+-----+-----+
2 rows in set (0.00 sec)

```

```

mysql> insert into stu values(8,'anuj');
Query OK, 1 row affected (0.11 sec)

```

```

mysql> insert into stu values(1,'ayush');
Query OK, 1 row affected (0.12 sec)

```

```

mysql> insert into stu values(18,'vivek');
Query OK, 1 row affected (0.02 sec)

```

```

mysql> insert into stu values(3,'aditya');
Query OK, 1 row affected (0.11 sec)

```

```

mysql> insert into stu values(9,'ankit');
Query OK, 1 row affected (0.02 sec)

```

```

mysql> insert into stu values(15,'harsh');
Query OK, 1 row affected (0.02 sec)

```

```

mysql> select * from stu;

```

```

+-----+-----+
| RNO  | NAME    |
+-----+-----+
| 4    | SAKSHAM |
| 6    | DARSHIL |
| 8    | anuj    |
| 1    | ayush   |
| 18   | vivek   |
| 3    | aditya  |
| 9    | ankit   |
| 15   | harsh   |
+-----+-----+
8 rows in set (0.00 sec)

```

```
mysql> select name from stu;
```

name
SAKSHAM
DARSHIL
anuj
ayush
vivek
aditya
ankit
harsh

8 rows in set (0.00 sec)

```
mysql> select name,rno from stu;
```

name	rno
SAKSHAM	4
DARSHIL	6
anuj	8
ayush	1
vivek	18
aditya	3
ankit	9
harsh	15

8 rows in set (0.00 sec)

```
mysql>
```

```
mysql> select sum(rno) from stu;
```

sum(rno)
64

1 row in set (0.13 sec)

```
mysql> alter table stu add column marks int;
```

Query OK, 8 rows affected (0.17 sec)

Records: 8 Duplicates: 0 Warnings: 0

```
mysql> describe stu;
```

Field	Type	Null	Key	Default	Extra
RNO	int(11)	YES		NULL	
NAME	char(20)	YES		NULL	
marks	int(11)	YES		NULL	

3 rows in set (0.01 sec)

```
mysql> desc stu;
```

Field	Type	Null	Key	Default	Extra
RNO	int(11)	YES		NULL	
NAME	char(20)	YES		NULL	

marks	int(11)	YES		NULL	
3 rows in set (0.01 sec)					

mysql> #rno name and marks are the name of the attributes

```
mysql> select * from stu;
```

RNO	NAME	marks
4	SAKSHAM	NULL
6	DARSHIL	NULL
8	anuj	NULL
1	ayush	NULL
18	vivek	NULL
3	aditya	NULL
9	ankit	NULL
15	harsh	NULL

8 rows in set (0.00 sec)

```
mysql> update stu set marks=99 where rno = 4;
```

Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from stu;
```

RNO	NAME	marks
4	SAKSHAM	99
6	DARSHIL	NULL
8	anuj	NULL
1	ayush	NULL
18	vivek	NULL
3	aditya	NULL
9	ankit	NULL
15	harsh	NULL

8 rows in set (0.00 sec)

```
mysql> update stu set marks=89 where rno = 15;
```

Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from stu;
```

RNO	NAME	marks
4	SAKSHAM	99
6	DARSHIL	NULL
8	anuj	NULL
1	ayush	NULL
18	vivek	NULL
3	aditya	NULL
9	ankit	NULL
15	harsh	89

8 rows in set (0.00 sec)

```
mysql> update stu set marks=75 where name='vivek';
```

Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from stu;

RNO	NAME	marks
4	SAKSHAM	99
6	DARSHIL	NULL
8	anuj	NULL
1	ayush	NULL
18	vivek	75
3	aditya	NULL
9	ankit	NULL
15	harsh	89

8 rows in set (0.00 sec)

mysql> update stu set marks=66 where name='ayush';

Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from stu;

RNO	NAME	marks
4	SAKSHAM	99
6	DARSHIL	NULL
8	anuj	NULL
1	ayush	66
18	vivek	75
3	aditya	NULL
9	ankit	NULL
15	harsh	89

8 rows in set (0.00 sec)

mysql> update stu set marks=80 where marks is null;

Query OK, 4 rows affected (0.11 sec)
Rows matched: 4 Changed: 4 Warnings: 0

mysql> select * from stu;

RNO	NAME	marks
4	SAKSHAM	99
6	DARSHIL	80
8	anuj	80
1	ayush	66
18	vivek	75
3	aditya	80
9	ankit	80
15	harsh	89

8 rows in set (0.00 sec)

mysql> select * from stu order by marks;

RNO	NAME	marks
-----	------	-------

1	ayush	66
18	vivek	75
6	DARSHIL	80
8	anuj	80
3	aditya	80
9	ankit	80
15	harsh	89
4	SAKSHAM	99

8 rows in set (0.00 sec)

```
mysql> select * from stu order by name
-> ;
```

RNO	NAME	marks
3	aditya	80
9	ankit	80
8	anuj	80
1	ayush	66
6	DARSHIL	80
15	harsh	89
4	SAKSHAM	99
18	vivek	75

8 rows in set (0.00 sec)

```
mysql> select * from stu order by name desc;
```

RNO	NAME	marks
18	vivek	75
4	SAKSHAM	99
15	harsh	89
6	DARSHIL	80
1	ayush	66
8	anuj	80
9	ankit	80
3	aditya	80

8 rows in set (0.00 sec)

```
mysql> select * from stu order by name asc;
```

RNO	NAME	marks
3	aditya	80
9	ankit	80
8	anuj	80
1	ayush	66
6	DARSHIL	80
15	harsh	89
4	SAKSHAM	99
18	vivek	75

8 rows in set (0.00 sec)

```
mysql> alter table stu add sec char;
```

Query OK, 8 rows affected (0.21 sec)
Records: 8 Duplicates: 0 Warnings: 0
9811969092 Satpal Singh V3

```
mysql> ##column world after add is optional
```

```
mysql> #sdfdsf
```

```
mysql> #use # hash for comment in sql
```

```
mysql> select min(marks) , max (marks), sum(marks), avg(marks), count(*),  
count(marks) from stu;
```

```
ERROR 1630 (42000): FUNCTION db2.max does not exist. Check the 'Function Name  
Parsing and Resolution' section in the Reference Manual
```

```
mysql> #space between function name and ( is not allowed
```

```
mysql> select min(marks) , max(marks), sum(marks), avg(marks), count(*),  
count(marks) from stu;
```

min(marks)	max(marks)	sum(marks)	avg(marks)	count(*)	count(marks)
66	99	649	81.1250	8	8

```
1 row in set (0.00 sec)
```

```
mysql> #ie. max (marks) is invalid
```

```
mysql> insert into stu values(14,'ashish',null);
```

```
ERROR 1136 (21S01): Column count doesn't match value count at row 1
```

```
#value count means attributes are 4 and values are 3 -- mismatch
```

```
mysql> insert into stu values(14,'ashish',null,null);
```

```
Query OK, 1 row affected (0.10 sec)
```

```
mysql> select * from stu;
```

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
8	anuj	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL

```
9 rows in set (0.00 sec)
```

```
mysql> select min(marks) , max(marks), sum(marks), avg(marks), count(*),  
count(marks) from stu;
```

min(marks)	max(marks)	sum(marks)	avg(marks)	count(*)	count(marks)
66	99	649	81.1250	9	8

```
1 row in set (0.00 sec)
```

```
mysql> #now count(*) is 9 total no of records and count(marks) is 8 ie. not null  
data;
```

```

mysql> notee
mysql> selecttttttt
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near
'selecttttttt' at line 1
mysql> notee
mysql> tee b:\mysqlteaching.txt
mysql> notee
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| NULL       |
+-----+
1 row in set (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database          |
+-----+
| information_schema |
| cyber_cafe         |
| db1                |
| db2                |
| mysql              |
| students           |
| test               |
+-----+
7 rows in set (0.03 sec)

mysql> USE DB1;
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_db1 |
+-----+
| stu           |
+-----+
1 row in set (0.12 sec)

mysql> SELEC * FROM STU;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'SELEC
* FROM STU' at line 1
mysql> SELECT* FROM STU;
+-----+
| RNO | NAME   |
+-----+
| 4   | SAKSHAM |
| 6   | DARSHIL |
+-----+
2 rows in set (0.06 sec)

mysql> C/*/**
/*> ;
/*> /
/*> C
/*> mysql> ALTER STU ADD COLUMN SEC CHAR;

```


ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'STU ADD COLUMN SEC CHAR' at line 1

```
mysql> ALTER TABLE STU ADD COLUMN SEC CHAR;
```

Query OK, 2 rows affected (0.15 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM STU;
```

RNO	NAME	SEC
4	SAKSHAM	NULL
6	DARSHIL	NULL

2 rows in set (0.00 sec)

```
mysql> UPDATE STU SET SEC='A';
```

Query OK, 2 rows affected (0.09 sec)

Rows matched: 2 Changed: 2 Warnings: 0

```
mysql> SELECT * FROM STU;
```

RNO	NAME	SEC
4	SAKSHAM	A
6	DARSHIL	A

2 rows in set (0.00 sec)

```
mysql> SHOW TABLES;
```

Tables_in_db1
stu

1 row in set (0.00 sec)

```
mysql> USE DB2;
```

Database changed

```
mysql> SHOW TABLES;
```

Tables_in_db2
stu
stu2

2 rows in set (0.00 sec)

```
mysql> SELECT * FROM STU2;
```

RNO	NAME	marks	sec	teacher
4	SAKSHAM	99	NULL	NULL
6	DARSHIL	80	NULL	NULL
8	anuj	80	NULL	NULL
1	ayush	66	NULL	NULL
18	vivek	75	NULL	NULL
3	aditya	80	NULL	NULL
9	ankit	80	NULL	NULL
15	harsh	89	NULL	NULL

14	ashish	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL

11 rows in set (0.02 sec)

```
mysql> INSERT INTO STU2 VALUE(15,'AMIT',97,'G','SATPAL SINGH');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM STU2;
```

RNO	NAME	marks	sec	teacher
4	SAKSHAM	99	NULL	NULL
6	DARSHIL	80	NULL	NULL
8	anuj	80	NULL	NULL
1	ayush	66	NULL	NULL
18	vivek	75	NULL	NULL
3	aditya	80	NULL	NULL
9	ankit	80	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
15	AMIT	97	G	SATPAL SINGH

12 rows in set (0.00 sec)

```
mysql> SELECT * FROM STU2 WHERE NAME LIKE 'A%';
```

RNO	NAME	marks	sec	teacher
8	anuj	80	NULL	NULL
1	ayush	66	NULL	NULL
3	aditya	80	NULL	NULL
9	ankit	80	NULL	NULL
14	ashish	NULL	NULL	NULL
15	AMIT	97	G	SATPAL SINGH

6 rows in set (0.01 sec)

```
mysql> SELECT * FROM STU2 WHERE NAME = 'A%';
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM STU2 WHERE NAME = BINARY 'A%';
Empty set (0.16 sec)
```

```
mysql> SELECT * FROM STU2 WHERE NAME LIKE BINARY 'A%';
```

RNO	NAME	marks	sec	teacher
15	AMIT	97	G	SATPAL SINGH

1 row in set (0.00 sec)

```
mysql> SELECT * FROM STU2 WHERE BINARY NAME LIKE BINARY 'A%';
```

RNO	NAME	marks	sec	teacher
15	AMIT	97	G	SATPAL SINGH

```
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM STU2 WHERE BINARY NAME LIKE 'A%';
```

```
+-----+-----+-----+-----+-----+
| RNO  | NAME | marks | sec  | teacher      |
+-----+-----+-----+-----+-----+
| 15   | AMIT | 97    | G    | SATPAL SINGH |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM STU2 WHERE BINARY NAME LIKE 'a%';
```

```
+-----+-----+-----+-----+-----+
| RNO  | NAME  | marks | sec  | teacher |
+-----+-----+-----+-----+-----+
| 8    | anuj  | 80    | NULL | NULL    |
| 1    | ayush | 66    | NULL | NULL    |
| 3    | aditya | 80    | NULL | NULL    |
| 9    | ankit | 80    | NULL | NULL    |
| 14   | ashish | NULL  | NULL | NULL    |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> # the world binary makes the comparision case sensitive.
mysql> # the world "binary" makes the comparision case sensitive.
mysql> SELECT * FROM STU2;
```

```
+-----+-----+-----+-----+-----+
| RNO  | NAME      | marks | sec  | teacher      |
+-----+-----+-----+-----+-----+
| 4    | SAKSHAM  | 99    | NULL | NULL         |
| 6    | DARSHIL  | 80    | NULL | NULL         |
| 8    | anuj     | 80    | NULL | NULL         |
| 1    | ayush    | 66    | NULL | NULL         |
| 18   | vivek    | 75    | NULL | NULL         |
| 3    | aditya   | 80    | NULL | NULL         |
| 9    | ankit    | 80    | NULL | NULL         |
| 15   | harsh    | 89    | NULL | NULL         |
| 14   | ashish   | NULL  | NULL | NULL         |
| 6    | DARSHIL  | NULL  | NULL | NULL         |
| 6    | DARSHIL  | NULL  | NULL | NULL         |
| 15   | AMIT     | 97    | G    | SATPAL SINGH |
+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM STU2 WHERE NAME LIKE '_a%';
```

```
+-----+-----+-----+-----+-----+
| RNO  | NAME      | marks | sec  | teacher      |
+-----+-----+-----+-----+-----+
| 4    | SAKSHAM  | 99    | NULL | NULL         |
| 6    | DARSHIL  | 80    | NULL | NULL         |
| 15   | harsh    | 89    | NULL | NULL         |
| 6    | DARSHIL  | NULL  | NULL | NULL         |
| 6    | DARSHIL  | NULL  | NULL | NULL         |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM STU2 WHERE NAME LIKE '%h';
```

```
+-----+-----+-----+-----+-----+
| RNO  | NAME      | marks | sec  | teacher      |
+-----+-----+-----+-----+-----+
```

RNO	NAME	marks	sec	teacher
1	ayush	66	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM STU2 WHERE NAME LIKE 's_';
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM STU2 WHERE NAME LIKE '%s_';
```

RNO	NAME	marks	sec	teacher
1	ayush	66	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL

3 rows in set (0.00 sec)

```
mysql> # _ and % are known as wild card charactes
mysql> # _ means any one character
mysql> # % means any number of any characters
mysql> # % also denotes zero character
mysql> SELECT * FROM STU2;
```

RNO	NAME	marks	sec	teacher
4	SAKSHAM	99	NULL	NULL
6	DARSHIL	80	NULL	NULL
8	anuj	80	NULL	NULL
1	ayush	66	NULL	NULL
18	vivek	75	NULL	NULL
3	aditya	80	NULL	NULL
9	ankit	80	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
15	AMIT	97	G	SATPAL SINGH

12 rows in set (0.00 sec)

```
mysql> SELECT * FROM STU2 WHERE BINARY NAME LIKE 'h%';
```

RNO	NAME	marks	sec	teacher
15	harsh	89	NULL	NULL

1 row in set (0.00 sec)

```
mysql> SELECT * FROM STU2 WHERE BINARY NAME LIKE '%h%';
```

RNO	NAME	marks	sec	teacher
1	ayush	66	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM STU2;
```

RNO	NAME	marks	sec	teacher
4	SAKSHAM	99	NULL	NULL
6	DARSHIL	80	NULL	NULL
8	anuj	80	NULL	NULL
1	ayush	66	NULL	NULL
18	vivek	75	NULL	NULL
3	aditya	80	NULL	NULL
9	ankit	80	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
6	DARSHIL	NULL	NULL	NULL
15	AMIT	97	G	SATPAL SINGH

```
12 rows in set (0.00 sec)
```

```
mysql> update stu2 set name='hari datt' where name='DARshil' and marks is null;
```

```
Query OK, 2 rows affected (0.12 sec)
```

```
Rows matched: 2  Changed: 2  Warnings: 0
```

```
mysql> SELECT * FROM STU2;
```

RNO	NAME	marks	sec	teacher
4	SAKSHAM	99	NULL	NULL
6	DARSHIL	80	NULL	NULL
8	anuj	80	NULL	NULL
1	ayush	66	NULL	NULL
18	vivek	75	NULL	NULL
3	aditya	80	NULL	NULL
9	ankit	80	NULL	NULL
15	harsh	89	NULL	NULL
14	ashish	NULL	NULL	NULL
6	hari datt	NULL	NULL	NULL
6	hari datt	NULL	NULL	NULL
15	AMIT	97	G	SATPAL SINGH

```
12 rows in set (0.00 sec)
```

```
mysql> # use "is" or "is not" with null
```

```
mysql> alter table stu2 add sno auto_increment;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'auto_increment' at line 1
```

```
mysql> alter table stu2 add sno int;
```

```
Query OK, 12 rows affected (0.11 sec)
```

```
Records: 12  Duplicates: 0  Warnings: 0
```

```
mysql> no tee
```

```
-> ;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'no tee' at line 1
```

```
mysql> note
```

```
SQL> CREATE TABLE STUDENT
( RNO NUMBER, NAME CHAR(9), SEX CHAR, MARKS NUMBER);
```

Table created.

```
SQL> DESCRIBE STUDENT;
```

Name	Null?	Type
RNO		NUMBER
NAME		CHAR(9)
SEX		CHAR(1)
MARKS		NUMBER

```
SQL> DESC STUDENT;
```

Name	Null?	Type
RNO		NUMBER
NAME		CHAR(9)
SEX		CHAR(1)
MARKS		NUMBER

```
SQL> INSERT INTO STUDENT VALUES (3, 'AJAY', 'M', 80);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES ( 7, 'RAHUL', 'M', 77);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES ( 8, 'AYUSH', 'M', 66);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES (1, 'CHARU', 'F', 87);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES (11, 'NEETU', 'F', 30);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES (14, 'NAKUL', 'M', 23);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES (17, 'DEEPTI', 'F', 60);
1 row created.
```

```
SQL> INSERT INTO STUDENT VALUES (21, NULL, null, 91);
1 row created.
```

Null means absence of value.

Don't use quotes over null.

'null' means null is a name of a student.

```
SQL> insert into student (sex,name) values('M', 'MOHIT');
1 row created.
```

*** means all of the attributes**

```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPTI	F	60
21			91
	MOHIT	M	

10 rows selected.

PROJECTION: TO DISPLAY FEW OF THE ATTRIBUTES ONLY.

```
SQL> SELECT NAME,RNO,MARKS FROM STUDENT;
```

NAME	RNO	MARKS
AJAY	3	80
PAWAN	5	50
RAHUL	7	77
AYUSH	8	66
CHARU	1	87
NEETU	11	30
NAKUL	14	23
DEEPTI	17	60
	21	91
MOHIT		

10 rows selected.

SELECTION: TO DISPLAY FEW OF THE TUPLES ONLY. IT IS FILTERING THE RECORDS

WHERE CLAUSE: IT CAN BE ACHIVED USING WHERE CLAUSE.

```
SQL> SELECT *  
2 FROM STUDENT  
3 WHERE  
4 MARKS > 50;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
17	DEEPTI	F	60
21			91

6 rows selected.

LIST OF RELATIONAL OPERATORS

<, >, <=, >=, =,

!= OR <> (BOTH MEANS SAME I.E. NOT EQUAL TO)

DONT EVER USE = =

SQL> SELECT * FROM STUDENT WHERE SEX <> 'M';

Or

SQL> SELECT * FROM STUDENT WHERE SEX != 'M';

Or

SQL> SELECT * FROM STUDENT WHERE NOT (SEX = 'M');

All of above 3 statements shall be having the following output:

RNO	NAME	S	MARKS
1	CHARU	F	87
11	NEETU	F	30
17	DEEPTI	F	60

THERE ARE THREE LOGICAL OPERATORS AND, OR, NOT

AND means → that both (all) of the conditions should satisfy the same record.

SQL> SELECT * FROM STUDENT WHERE SEX='F' AND MARKS>50;

RNO	NAME	S	MARKS
1	CHARU	F	87
17	DEEPTI	F	60

OR means → at least one of the condition should satisfy on the record.

SQL> SELECT * FROM STUDENT WHERE SEX='F' OR MARKS>50;

RNO	NAME	S	MARKS
3	AJAY	M	80
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
17	DEEPTI	F	60
21			91

7 rows selected.

ORDER BY CLAUSE

In case of ascending order the NULL would appear at the bottom.
In case of descending order the NULL would appear at the top.

```
SQL> SELECT * FROM STUDENT ORDER BY NAME;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
8	AYUSH	M	66
1	CHARU	F	87
17	DEEPTI	F	60
	MOHIT	M	
14	NAKUL	M	23
11	NEETU	F	30
5	PAWAN	M	50
7	RAHUL	M	77
21			91

10 rows selected.

```
SQL> SELECT * FROM STUDENT ORDER BY MARKS DESC;
```

RNO	NAME	S	MARKS
	MOHIT	M	
21			91
1	CHARU	F	87
3	AJAY	M	80
7	RAHUL	M	77
8	AYUSH	M	66
17	DEEPTI	F	60
5	PAWAN	M	50
11	NEETU	F	30
14	NAKUL	M	23

10 rows selected.

```
SQL> SELECT NAME FROM STUDENT ORDER BY MARKS ASC;
```

NAME

NAKUL
NEETU
PAWAN
DEEPTI
AYUSH
RAHUL
AJAY
CHARU

MOHIT

10 rows selected.

Aggregate functions: SUM(), MIN(), MAX(), AVG(), COUNT(*), COUNT

SQL> SELECT * FROM STUDENT;

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPTI	F	60
21	MOHIT	M	91

10 rows selected.

SQL> SELECT SUM(MARKS) FROM STUDENT WHERE SEX='F';
SUM(MARKS)

177

SQL> SELECT MIN(RNO), MAX(MARKS), AVG(MARKS) FROM STUDENT;

MIN(RNO)	MAX(MARKS)	AVG(MARKS)
1	91	62.666667

SQL> SELECT AVG(MARKS), COUNT(*) FROM STUDENT WHERE SEX='F';

AVG(MARKS)	COUNT(*)
59	3

SQL> SELECT COUNT(*) FROM STUDENT;

COUNT(*)
10

SQL>

SQL> SELECT COUNT(MARKS) FROM STUDENT WHERE SEX='M';

COUNT(MARKS)
5

SQL> SELECT COUNT(*) FROM STUDENT WHERE SEX='M';

COUNT(*)
6

There are two wild card characters (in the syllabus)

1. (underscore) `_` (Any one character)
2. (Percentage) `%` (Any number of any characters.) (May be 0(zero)).

Always use **"like"** instead of **"="** while using wild card characters.

```
SQL> select * from student where name like '_A%';
```

RNO	NAME	S	MARKS
5	PAWAN	M	50
7	RAHUL	M	77
14	NAKUL	M	23

```
SQL> select * from student;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPTI	F	60
21	MOHIT	M	91

10 rows selected.

```
SQL> select * from student where name like 'A%';
```

RNO	NAME	S	MARKS
3	AJAY	M	80
8	AYUSH	M	66

```
SQL> select * from student where name like '%s%';
```

no rows selected

//s is in lower case and in the table no lower case s is used.

```
SQL> select * from student where name like '%S%';
```

RNO	NAME	S	MARKS
8	AYUSH	M	66

% also refers to 0 (zero) character.

```
SQL> select * from student where name like '%U%';
```

RNO	NAME	S	MARKS
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23

```
SQL>
```

BETWEEN - AND CLAUSE: THE BETWEEN CLAUSE ALWAYS CONSIDER THE VALUE INCLUSIVELY.

```
SQL> SELECT * FROM STUDENT WHERE MARKS BETWEEN 77 AND 88
```

RNO	NAME	S	MARKS
3	AJAY	M	80
7	RAHUL	M	77
1	CHARU	F	87

```
SQL> SELECT * FROM STUDENT WHERE MARKS >=77 AND MARKS <=88;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
7	RAHUL	M	77
1	CHARU	F	87

IN CLAUSE

It generates a logical result true if any of the value matches .

```
SQL> select * from student where name in ('AJAY', 'CHARU', 'DEEPTI');
```

RNO	NAME	S	MARKS
3	AJAY	M	80
1	CHARU	F	87
17	DEEPTI	F	60

```
SQL> SELECT * FROM STUDENT  
2 WHERE NAME = 'AJAY' OR NAME = 'CHARU' OR NAME='DEEPTI';
```

RNO	NAME	S	MARKS
3	AJAY	M	80
1	CHARU	F	87
17	DEEPTI	F	60

TO COPY AN EXISTING TABLE TO A NEW TABLE.

```
CREATE TABLE "NewTableName" AS SELECT * FROM "ExisgingTableName";
```

```
SQL> CREATE TABLE STUD AS SELECT * FROM STUDENT;
```

Table created.

```
SQL> SELECT * FROM STUD;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPTI	F	60
21			91
	MOHIT	M	

10 rows selected.

UPDATE: THIS STATEMENT IS USED TO CHANGE THE VALUES (DATA) IN A TABLE (RELATION).

```
SQL> UPDATE STUDENT SET NAME ='DEEPA' WHERE NAME='DEEPTI';
```

1 row updated.

```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPA	F	60
21			91
	MOHIT	M	

10 rows selected.

ALWAYS USE "IS NULL" OR use "IS NOT NULL"

"= NULL" OR "<> NULL" IS NOT ALLOWED **IN THE CONDITION**

```
SQL> UPDATE STUDENT SET NAME ='VINAY'WHERE NAME IS NULL;
```

1 row updated.

SQL> SELECT * FROM STUDENT;

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPA	F	60
21	VINAY		91
	MOHIT	M	

10 rows selected.

SQL> UPDATE STUDENT SET MARKS=MARKS+10 WHERE MARKS <35;

2 rows updated.

SQL> SELECT * FROM STUDENT;

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	40
14	NAKUL	M	33
17	DEEPA	F	60
21	VINAY		91
	MOHIT	M	

10 rows selected.

SQL> UPDATE STUDENT SET SEX='M' WHERE MARKS=91;

1 row updated.

SQL> SELECT * FROM STUDENT;

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	40
14	NAKUL	M	33
17	DEEPA	F	60
21	VINAY	M	91
	MOHIT	M	

10 rows selected.

WE USE =NULL WHILE ASSIGNING THE NULL VALUE.

```
SQL> UPDATE STUDENT SET NAME=NULL WHERE NAME LIKE 'A%';
```

2 rows updated.

```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	S	MARKS
3		M	80
5	PAWAN	M	50
7	RAHUL	M	77
8		M	66
1	CHARU	F	87
11	NEETU	F	40
14	NAKUL	M	33
17	DEEPA	F	60
21	VINAY	M	91
	MOHIT	M	

10 rows selected.

=NULL IS NOT ALLOWED IN THE CONDITION

```
SQL> SELECT * FROM STUDENT WHERE NAME = NULL;
```

no rows selected

=> DELETE FROM : DELETE FROM STATEMENT IS USED TO DELETE TUPLE(S) FORM A RELATION.

DON'T EVER USE DELETE *
ALWAYS USE DELETE FROM

IF WE WANT TO DELETE, THE WHOLE OF THE RECORD MAY BE DELETED, NOT THE PARTIAL ONE.

The SQL Statement "Delete from student;" would delete all of the records of the table student, but still the structure of the table student exist. That means you don't require to create the table student again (using statement create table student ...) in order to insert the records into the table student. You may simply use the insert into ... to add record to the table student.

```
SQL> DELETE FROM STUDENT WHERE NAME IS NULL
```

2 rows deleted.

```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	S	MARKS
5	PAWAN	M	50
7	RAHUL	M	77
1	CHARU	F	87
11	NEETU	F	40
14	NAKUL	M	33
17	DEEPA	F	60
21	VINAY	M	91
	MOHIT	M	

8 rows selected.

DROP

The drop command is used to delete the table or view permanently. It deletes even the structure of the table. That means no data can be added later.

```
SQL> drop table student;
Table dropped.
```

```
SQL> create table student as select * from stud;
Table created.
```

```
SQL> select * from student;
```

RNO	NAME	S	MARKS
3	AJAY	M	80
5	PAWAN	M	50
7	RAHUL	M	77
8	AYUSH	M	66
1	CHARU	F	87
11	NEETU	F	30
14	NAKUL	M	23
17	DEEPTI	F	60
21	MOHIT	M	91

10 rows selected.

A DDL statement

Alter is used to modify the structure of the table.

```
SQL> alter table student modify (sex char(6));
```

Table altered.

```
SQL> desc student;
```

Name	Null?	Type
RNO		NUMBER
NAME		CHAR(9)
SEX		CHAR(6)
MARKS		NUMBER

```
SQL> update student set sex='MALE' WHERE SEX='M';
```

6 rows updated.

```
SQL> update student set sex='FEMALE' WHERE SEX='F';
```

3 rows updated.


```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	SEX	MARKS
3	AJAY	MALE	80
5	PAWAN	MALE	50
7	RAHUL	MALE	77
8	AYUSH	MALE	66
1	CHARU	FEMALE	87
11	NEETU	FEMALE	30
14	NAKUL	MALE	23
17	DEEPTI	FEMALE	60
21			91
	MOHIT	MALE	

10 rows selected.

```
SQL> ALTER TABLE STUDENT ADD (GRADE CHAR);
```

Table altered.

```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	SEX	MARKS	G
3	AJAY	MALE	80	
5	PAWAN	MALE	50	
7	RAHUL	MALE	77	
8	AYUSH	MALE	66	
1	CHARU	FEMALE	87	
11	NEETU	FEMALE	30	
14	NAKUL	MALE	23	
17	DEEPTI	FEMALE	60	
21			91	
	MOHIT	MALE		

10 rows selected.

USE DOULE QUOTES TO CHANGE THE HEAD OF THE ATTRIBUTE. (" ")

```
SELECT ATTRIBUTENAME (SPACE) "NEWHEADNAME" ----
```

```
SQL> SELECT NAME,SEX "GENDER" FROM STUDENT;
```

NAME	GENDER
AJAY	MALE
PAWAN	MALE
RAHUL	MALE
AYUSH	MALE
CHARU	FEMALE
NEETU	FEMALE
NAKUL	MALE
DEEPTI	FEMALE
MOHIT	MALE

10 rows selected.

View: View is a virtual table with no data but can be operated like any other table. It is like a window through which a part of a table can be viewed. No separate memory is allocated for the data visible through the view.

```
SQL> select * from student;
```

RNO	NAME	SEX	MARKS	G
3	AJAY	MALE	80	
5	PAWAN	MALE	50	
7	RAHUL	MALE	77	
8	AYUSH	MALE	66	
1	CHARU	FEMALE	87	
11	NEETU	FEMALE	30	
14	NAKUL	MALE	23	
17	DEEPTI	FEMALE	60	
21			91	
	MOHIT	MALE		

10 rows selected.

```
SQL> create view best as select * from student where marks>80;
```

View created.

```
SQL> select * from best;
```

RNO	NAME	SEX	MARKS	G
1	CHARU	FEMALE	87	
21			91	

2 rows selected.

```
SQL> update best set name = 'KAVITA' WHERE MARKS=91;
```

1 row updated.

```
SQL> SELECT * FROM BEST  
2 ;
```

RNO	NAME	SEX	MARKS	G
1	CHARU	FEMALE	87	
21	KAVITA		91	

2 rows selected.

```
SQL> SELECT * FROM STUDENT;
```

RNO	NAME	SEX	MARKS	G
3	AJAY	MALE	80	
5	PAWAN	MALE	50	
7	RAHUL	MALE	77	
8	AYUSH	MALE	66	
1	CHARU	FEMALE	87	
11	NEETU	FEMALE	30	
14	NAKUL	MALE	23	
17	DEEPTI	FEMALE	60	
21	KAVITA		91	
	MOHIT	MALE		

10 rows selected.

```
SQL> UPDATE STUDENT SET MARKS=99 WHERE MARKS=50;
```

1 row updated.

```
SQL> SELECT * FROM BEST;
```

RNO	NAME	SEX	MARKS	G
5	PAWAN	MALE	99	
1	CHARU	FEMALE	87	
21	KAVITA		91	

3 rows selected.

```
SQL> CREATE VIEW PORJ AS SELECT NAME,SEX FROM STUDENT;
```

View created.

```
SQL> SELECT * FROM PORJ;
```

NAME	SEX
AJAY	MALE
PAWAN	MALE
RAHUL	MALE
AYUSH	MALE
CHARU	FEMALE
NEETU	FEMALE
NAKUL	MALE
DEEPTI	FEMALE
KAVITA	
MOHIT	MALE

10 rows selected.

```
SQL> DROP VIEW PORJ;
```

View dropped.

Creating a view form a view

```
SQL> CREATE VIEW B AS SELECT RNO,SEX FROM BEST;
```

View created.

```
SQL> SELECT * FROM B;
```

RNO	SEX
5	MALE
1	FEMALE
21	

```
SQL> select max (marks) from student;
```

MAX(MARKS)
99

```
SQL> select name from student where marks=99;
```

NAME
PAWAN

SUBQUERY: A query within a query.

```
SQL> select name from student where marks=(select max(marks) from student);
```

NAME
PAWAN

```
SQL> select avg(marks) from student;
```

AVG(MARKS)
68.111111

```
SQL> select * from student
2   where marks> (select avg(marks) from student)
```

RNO	NAME	SEX	MARKS	G
3	AJAY	MALE	80	
5	PAWAN	MALE	99	
7	RAHUL	MALE	77	
1	CHARU	FEMALE	87	
21	KAVITA		91	

Order By (Within)

```
SQL> select * from student;
```

RNO	NAME	SEX	MARKS	G
3	AJAY	MALE	80	
5	PAWAN	MALE	99	
7	RAHUL	MALE	77	
8	AYUSH	MALE	66	
1	CHARU	FEMALE	87	
11	NEETU	FEMALE	30	
14	NAKUL	MALE	23	
17	DEEPTI	FEMALE	60	
21	KAVITA		91	
	MOHIT	MALE		

10 rows selected.

```
SQL> select * from student order by sex;
```

RNO	NAME	SEX	MARKS	G
1	CHARU	FEMALE	87	
11	NEETU	FEMALE	30	
17	DEEPTI	FEMALE	60	
3	AJAY	MALE	80	
5	PAWAN	MALE	99	
	MOHIT	MALE		
14	NAKUL	MALE	23	
7	RAHUL	MALE	77	
8	AYUSH	MALE	66	
21	KAVITA		91	

10 rows selected.

```
SQL> select * from student order by sex,name;
```

RNO	NAME	SEX	MARKS	G
1	CHARU	FEMALE	87	
17	DEEPTI	FEMALE	60	
11	NEETU	FEMALE	30	
3	AJAY	MALE	80	
8	AYUSH	MALE	66	
	MOHIT	MALE		
14	NAKUL	MALE	23	
5	PAWAN	MALE	99	
7	RAHUL	MALE	77	
21	KAVITA		91	

10 rows selected.

To read further:

Distinct clause

Various constraints that can be given while creating a table i.e. primary key

Sysdate

Dual

String functions

Group by clause and having clause

Equi join

Enter password: ***

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 3

Server version: 5.1.73-community MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use db2

Database changed

mysql> select * from stu;

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
8	anuj	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

11 rows in set (0.58 sec)

mysql> select * from stu where name <> 'anuj';

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

10 rows in set (0.00 sec)

mysql> select * from stu where name != 'anuj';

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL

9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

10 rows in set (0.00 sec)

```
mysql> select * from stu where not name = 'anuj';
```

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

10 rows in set (0.00 sec)

```
mysql> select
```

```
-> *
```

```
-> from
```

```
-> stu
```

```
-> ;
```

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
8	anuj	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

11 rows in set (0.00 sec)

```
mysql> select * from stu where name = 'ankit;
```

```
'>
```

```
'>
```

```
'>
```

```
'>
```

```
'>
```

```
'> dfg
```

```
'> dfg
```

```
'> dfg
```

```
'> dfgfg
```

```
'> h
```

```
'> fgh
```

```
'> '
```

```

->
-> jkl
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'jkl'
at line 3
mysql> select count (*) from stu;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '*) fr
om stu' at line 1
mysql> select * from stu where name = 'ankit;
'> ';
Empty set (0.00 sec)

```

```
mysql> select * from stu where not name = 'anuj';
```

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

```
10 rows in set (0.00 sec)
```

```
mysql> select count* from stu where not name = 'anuj';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'from
stu where not name = 'anuj'' at line 1
```

```
mysql> select count(*) from stu where not name = 'anuj';
```

count(*)
10

```
1 row in set (0.02 sec)
```

```
mysql> select count(*) from stu;
```

count(*)
11

```
1 row in set (0.00 sec)
```

```
mysql> #dont give space after function name ever.
```

```
mysql> select * from stu ;
```

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	DARSHIL	80	NULL
8	anuj	80	NULL
1	ayush	66	NULL

18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	DARSHIL	NULL	NULL
6	DARSHIL	NULL	NULL

11 rows in set (0.00 sec)

```
mysql> UPDATE STU SET NAME=NULL WHERE NAME = 'DARSHIL'
-> ;
Query OK, 3 rows affected (0.02 sec)
Rows matched: 3  Changed: 3  Warnings: 0
```

```
mysql> select * from stu ;
```

RNO	NAME	marks	sec
4	SAKSHAM	99	NULL
6	NULL	80	NULL
8	anuj	80	NULL
1	ayush	66	NULL
18	vivek	75	NULL
3	aditya	80	NULL
9	ankit	80	NULL
15	harsh	89	NULL
14	ashish	NULL	NULL
6	NULL	NULL	NULL
6	NULL	NULL	NULL

11 rows in set (0.00 sec)

```
mysql>
```