

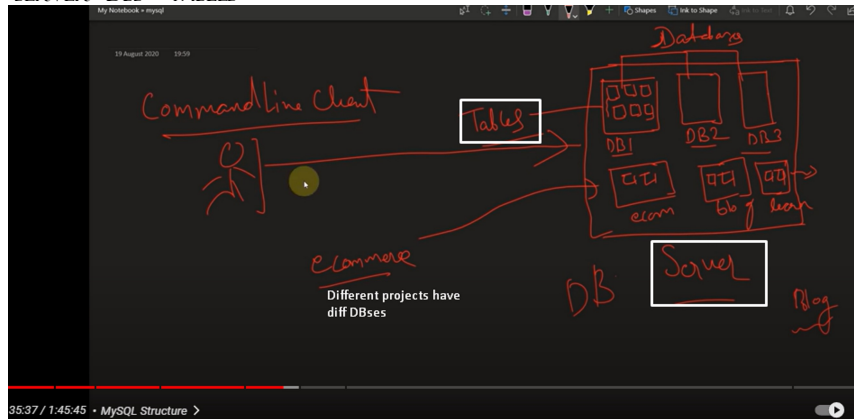
# Learn MYSQL in one video

Sunday, August 21, 2022 6:55 PM

Start

Flow

SERVER -- DBS -- TABLES



```
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owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.05 sec)

mysql> create database learn;
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| learn |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
7 rows in set (0.00 sec)

mysql>
```

```
show databases;
create database [db_name];
use [db_name];
drop database [db_name]

create table [table_name] (col1 , col2, col3 , col4.....);
eg user
```

Syntax Close eyes and give all cols u want to give.

```
mysql> create table user(id int(11) primary key , name varchar(100) not null, city varchar(1));
```

so that no 2 id's can be same.

just like string

options u can give different too

```
mysql> use learn;
Database changed
mysql> drop database learn;
Query OK, 0 rows affected (0.02 sec)

mysql> use learn;
ERROR 1049 (42000): Unknown database 'learn'
mysql> create database learn;
Query OK, 1 row affected (0.01 sec)

mysql> create table(id int(5) primary key , name varchar(100)notnull , ci
ty varchar(40));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
l that corresponds to your MySQL server version for the right syntax to use
near '(id int(5) primary key , name varchar(100)notnull , city varchar
(40))' at line 1
mysql> create table(id int(5) primary key , name varchar (100) notnull ,
city varchar(40));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
l that corresponds to your MySQL server version for the right syntax to use
near '(id int(5) primary key , name varchar (100) notnull , city varch
ar(40))' at line 1
mysql> create table(id int(5) primary key , name varchar(100) not null ,
city varchar(40));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
l that corresponds to your MySQL server version for the right syntax to use
near '(id int(5) primary key , name varchar(100) not null , city varch
ar(40))' at line 1
mysql> create table user(id int(5) primary key , name varchar(100) not nu
ll , city varchar(40));
ERROR 1046 (3D000): No database selected
mysql> create table user(id int(5) primary key , name varchar(100) not nu
ll , city varchar(40));
ERROR 1046 (3D000): No database selected
mysql> use learn;
Database changed
mysql> create table user(id int(5) primary key , name varchar(100) not nu
ll , city varchar(40));
Query OK, 0 rows affected, 1 warning (0.05 sec)
```

didn't gave db  
name  
or  
didn't select it

```
mysql> show tables;
+-----+
| Tables_in_learn |
+-----+
| user             |
+-----+
1 row in set (0.01 sec)

mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int           | NO   | PRI | NULL    |       |
| name  | varchar(100)  | NO   |     | NULL    |       |
| city  | varchar(40)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

Continue from here

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30/8/22

```
> create table technologies(id int(5) primary key , name varchar(100) not null,LOI VARCHAR(10),is_checked BIT(1) ,LOinterest varchar(50));
OK, 0 rows affected, 1 warning (0.10 sec)
```

<https://www.databasestar.com/sql-boolean-data-type/#:~:text=SQL%20Server%20Boolean.TRUE%20and%200%20for%20FALSE>

I have given a new query here which is boolean type and is gonna work with the boolean way

Order can be changed and specified here

```
insert into [table_name](id,name,city) values(12,'durgesh','delhi');
insert intor [table_name] values(12,'ankit','kanpur');
```

1st one is we can modify the order  
but in 2nd one we can't

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```
mysql> update tech set LOinterest= 'High' , complexity=ok where id =3;
ERROR 1054 (42S22): Unknown column 'ok' in 'field list'
mysql> update tech set LOinterest='High' , complexity='ok' where id =3;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from tech;
+----+-----+-----+-----+
| id | name  | LOinterest | complexity |
+----+-----+-----+-----+
| 1  | Java  | NULL      | NULL      |
| 2  | Py    | NULL      | NULL      |
| 3  | cloud | High      | ok        |
+----+-----+-----+-----+
3 rows in set (0.00 sec)
```

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3rd Sept

### Query for searching a particular kind of the record

```
l> select * from avengers where name="hulk";
+-----+-----+-----+
| id | name | Power |
+-----+-----+-----+
| 1  | hulk | Greenguy |
+-----+-----+-----+
1 row in set (0.00 sec)
```

### Using the alias query

```
mysql> select name as "aname", Power as "Ability" from avengers;
+-----+-----+
| aname | Ability |
+-----+-----+
| hulk  | Greenguy |
| Ironman | Flying guy |
| NULL  | fighting girl |
+-----+-----+
3 rows in set (0.00 sec)
```

### Selecting a column only

```
mysql> Select Power from avengers;
+-----+
| Power |
+-----+
| Greenguy |
| Flying guy |
| fighting girl |
+-----+
3 rows in set (0.00 sec)
```

### Now for skipping the same set of the result, by using the distinct query

```
mysql> select distinct(power) from student;
ERROR 1146 (42S02): Table 'tute.student' doesn't exist
mysql> select distinct(power) from avengers;
+-----+
| power |
+-----+
| Greenguy |
| Flying guy |
| fighting girl |
+-----+
3 rows in set (0.00 sec)
```

### For adding a column in the existing table

#### Following is the syntax

```
ALTER TABLE table ADD [COLUMN] column_name_1 column_1_definition [FIRST|AFTER existing_column], ADD
```

[COLUMN] column\_name\_2 column\_2\_definition [FIRST|AFTER existing\_column], ...;

#### example

```
ALTER TABLE vendors ADD COLUMN phone VARCHAR(15) AFTER name;
```

#### Practical below

```
mysql> alter table avengers
-> add column skincolor varchar(100) after power;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from avengers;
+-----+-----+-----+-----+
| id | name | Power | skincolor |
+-----+-----+-----+-----+
| 1 | hulk | Greenguy | NULL |
| 2 | Ironman | Flying guy | NULL |
| 3 | NULL | fighting girl | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

From <<https://www.mysqltutorial.org/mysql-add-column/>>

```
File Edit Format View Help
drop database [db_name]

create table [table_name] (col1 , col2, col3 , col4.....);
eg user

show tables;
desc [tb_name];
drop table [table_name];

alter table [old table name] rename to [new name];
truncate table [table_name];

insert into [table_name](id,name,city) values(12,'durgesh','delhi');
insert intor [table_name] values(12,'ankit','kanpur');

alter table [table_name] add col1;
update [table_name] set col= value , col = value where col=value;
delete from [table_name] where col=value;
```

Specific kinda operations

In practical below

```
mysql> select * from avengers;
+-----+-----+-----+-----+
| id | name | Power | skincolor |
+-----+-----+-----+-----+
| 1 | hulk | Greenguy | NULL |
| 2 | Ironman | Flying guy | NULL |
| 3 | NULL | fighting girl | NULL |
+-----+-----+-----+-----+
```

#### The main query

```
mysql> update avengers
-> set skincolor="Green" where name="hulk";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from avengers;
+-----+-----+-----+-----+
| id | name | Power | skincolor |
+-----+-----+-----+-----+
| 1 | hulk | Greenguy | Green |
| 2 | Ironman | Flying guy | NULL |
| 3 | NULL | fighting girl | NULL |
+-----+-----+-----+-----+
```

#### Single condition Query

```
mysql> select * from avengers where id=1 and skincolor="Green";
+-----+-----+-----+-----+
| id | name | Power | skincolor |
+-----+-----+-----+-----+
```

```
| id | name | Power | skincolor |
+-----+-----+
| 1 | hulk | Greenguy | Green |
+-----+-----+
1 row in set (0.00 sec)
```

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**OR start from here**

```
mysql> select * from avengers where skincolor="blue" or name="hulk";
+-----+-----+-----+
| id | name | Power | skincolor | movie |
+-----+-----+-----+
| 1 | hulk | Greenguy | Green | NULL |
+-----+-----+-----+
1 row in set (0.00 sec)
```

**Range between the operator**

```
mysql> select * from avengers where id >=2 and <=4;
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 '<=4' at line 1
mysql> select * from avengers where id >=2 and id <=4;
+-----+-----+-----+-----+
| id | name | Power | skincolor | movie |
+-----+-----+-----+-----+
| 2 | Ironman | Flying guy | skinc | NULL |
| 3 | Romanoff | fighting girl | skinc | NULL |
| 4 | DrStrange | Wizard | skinc | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from avengers where id between 2 and 4;
+-----+-----+-----+-----+
| id | name | Power | skincolor | movie |
+-----+-----+-----+-----+
| 2 | Ironman | Flying guy | skinc | NULL |
| 3 | Romanoff | fighting girl | skinc | NULL |
| 4 | DrStrange | Wizard | skinc | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

**The usefulness of the "in operator"**

Below is with using the normal or

```
mysql> select * from avengers where id=1 or id=2 or id=5;
+-----+-----+-----+-----+
| id | name | Power | skincolor | movie |
+-----+-----+-----+-----+
| 1 | hulk | Greenguy | Green | NULL |
| 2 | Ironman | Flying guy | skinc | NULL |
| 5 | Groot | Cute | Brown | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> using the 'IN operator'
-> ^C
mysql> select * from avengers where skincolor in(skinc);
ERROR 1054 (42S22): Unknown column 'skinc' in 'where clause'
mysql> select * from avengers where skincolor in("skinc");
+-----+-----+-----+-----+
| id | name | Power | skincolor | movie |
+-----+-----+-----+-----+
| 2 | Ironman | Flying guy | skinc | NULL |
| 3 | Romanoff | fighting girl | skinc | NULL |
| 4 | DrStrange | Wizard | skinc | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

**Limit and Offset**

Whole table view

```
mysql> select * from avengers;
+-----+-----+-----+-----+
| id | name   | Power   | skincolor | movie |
+-----+-----+-----+-----+
| 1 | hulk   | Greenguy | Green    | NULL |
| 2 | Ironman | Flying guy | skinc   | NULL |
| 3 | Romanoff | fighting girl | skinc  | NULL |
| 4 | DrStrange | Wizard   | skinc   | NULL |
| 5 | Groot   | Cute     | Brown    | NULL |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from avengers limit 3;
+-----+-----+-----+-----+
| id | name   | Power   | skincolor | movie |
+-----+-----+-----+-----+
| 1 | hulk   | Greenguy | Green    | NULL |
| 2 | Ironman | Flying guy | skinc   | NULL |
| 3 | Romanoff | fighting girl | skinc  | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from avengers limit 3 offset 1;
+-----+-----+-----+-----+
| id | name   | Power   | skincolor | movie |
+-----+-----+-----+-----+
| 2 | Ironman | Flying guy | skinc   | NULL |
| 3 | Romanoff | fighting girl | skinc  | NULL |
| 4 | DrStrange | Wizard   | skinc   | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

#### Order by

```
mysql> select * from avengers order by name desc;
+-----+-----+-----+-----+
| id | name   | Power   | skincolor | movie |
+-----+-----+-----+-----+
| 3 | Romanoff | fighting girl | skinc  | NULL |
| 2 | Ironman | Flying guy | skinc   | NULL |
| 1 | hulk   | Greenguy | Green    | NULL |
| 5 | Groot   | Cute     | Brown    | NULL |
| 4 | DrStrange | Wizard   | skinc   | NULL |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from avengers order by id desc;
+-----+-----+-----+-----+
| id | name   | Power   | skincolor | movie |
+-----+-----+-----+-----+
| 5 | Groot   | Cute     | Brown    | NULL |
| 4 | DrStrange | Wizard   | skinc   | NULL |
| 3 | Romanoff | fighting girl | skinc  | NULL |
| 2 | Ironman | Flying guy | skinc   | NULL |
| 1 | hulk   | Greenguy | Green    | NULL |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

#### From below order by

```
mysql> select * from avengers order by id desc limit 3;
+-----+-----+-----+-----+
| id | name   | Power   | skincolor | movie |
+-----+-----+-----+-----+
| 5 | Groot   | Cute     | Brown    | NULL |
| 4 | DrStrange | Wizard   | skinc   | NULL |
| 3 | Romanoff | fighting girl | skinc  | NULL |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

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