

EXPERIMENT NO.: - 04

➤ CREATE TABLE USING DDL (DATA DEFINITION LANGUAGE) COMMANDS

```
Command Prompt - mysql -u x + v
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sapka>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 29
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> USE studdb;
Database changed
mysql> CREATE TABLE School(Student_Name char(50), Student_Roll_No int, Subject char(50), Marks float);
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO School VALUES('Omkar',63,'DBMS',12);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO School VALUES('Vishal',60,'SEPM',10);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO School VALUES('Gautam',52,'WD',15);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO School VALUES('Gunjan',20,'EIM',13);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO School VALUES('Kunal',62,'IA',15);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM School;
+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks |
+-----+-----+-----+-----+
```

```
mysql> SELECT * FROM School;
+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks |
+-----+-----+-----+-----+
| Omkar        | 63              | DBMS    | 12     |
| Vishal       | 60              | SEPM    | 10     |
| Gautam       | 52              | WD      | 15     |
| Gunjan       | 20              | EIM     | 13     |
| Kunal        | 62              | IA      | 15     |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> ALTER TABLE School ADD Result char(50);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> UPDATE School SET Result = 'Fail' WHERE Student_Name = 'Omkar';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE School SET Result = 'Fail' WHERE Student_Name = 'Vishal';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE School SET Result = 'Pass' WHERE Student_Name = 'Gautam';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE School SET Result = 'Pass' WHERE Student_Name = 'Gunjan';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE School SET Result = 'Pass' WHERE Student_Name = 'Kunal';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM School;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
```

```
Command Prompt - mysql -u x + v
mysql> SELECT * FROM School;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Omkar        | 63              | DBMS    | 12     | Fail    |
| Vishal       | 60              | SEPM    | 10     | Fail    |
| Gautam       | 52              | WD      | 15     | Pass    |
| Gunjan       | 20              | EEIM    | 13     | Pass    |
| Kunal        | 62              | IA      | 15     | Pass    |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT Student_Name FROM School ORDERBY DESC;
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 'D
ESC' at line 1
mysql> DELETE FROM School WHERE Student_Roll-No = 63;
ERROR 1054 (42S22): Unknown column 'Student_Roll' in 'where clause'
mysql> DELETE FROM School WHERE Student_Roll_No = 63;
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM School;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Vishal       | 60              | SEPM    | 10     | Fail    |
| Gautam       | 52              | WD      | 15     | Pass    |
| Gunjan       | 20              | EEIM    | 13     | Pass    |
| Kunal        | 62              | IA      | 15     | Pass    |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT * FROM School ORDER BY Student_Roll_No DESC;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Kunal        | 62              | IA      | 15     | Pass    |
| Vishal       | 60              | SEPM    | 10     | Fail    |
| Gautam       | 52              | WD      | 15     | Pass    |
| Gunjan       | 20              | EEIM    | 13     | Pass    |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u x + v
mysql> SELECT * FROM School;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Vishal       | 60              | SEPM    | 10     | Fail    |
| Gautam       | 52              | WD      | 15     | Pass    |
| Gunjan       | 20              | EEIM    | 13     | Pass    |
| Kunal        | 62              | IA      | 15     | Pass    |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT * FROM School ORDER BY Student_Roll_No DESC;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Kunal        | 62              | IA      | 15     | Pass    |
| Vishal       | 60              | SEPM    | 10     | Fail    |
| Gautam       | 52              | WD      | 15     | Pass    |
| Gunjan       | 20              | EEIM    | 13     | Pass    |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> SELECT * FROM School ORDER BY Student_Roll_No ASC;
+-----+-----+-----+-----+-----+
| Student_Name | Student_Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Gunjan       | 20              | EEIM    | 13     | Pass    |
| Gautam       | 52              | WD      | 15     | Pass    |
| Vishal       | 60              | SEPM    | 10     | Fail    |
| Kunal        | 62              | IA      | 15     | Pass    |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> DROP TABLE School;
Query OK, 0 rows affected (0.03 sec)

mysql> SELECT * FROM School;
ERROR 1146 (42S02): Table 'studdb.school' doesn't exist
mysql>
```

➤ CREATE VIEW

```
Command Prompt - mysql -u x Windows PowerShell x + v
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\sapka> mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 30
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> USE stud2db;
Database changed
mysql> CREATE TABLE Student10(Name char(50), Roll_No int, Subject char(50), Marks float, Result char(50));
Query OK, 0 rows affected (0.05 sec)

mysql> INSERT INTO Student10 VALUES('Omkar',63,'DBMS',12,'Fail');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Student10 VALUES('Vishal',60,'SEPM',10,'Fail');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student10 VALUES('Gautam',52,'WD',15,'Pass');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student10 VALUES('Gunjan',20,'EEIM',13,'Pass');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student10 VALUES('Kunal',62,'IA',15,'Pass');
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Student10;
```

```
Command Prompt - mysql -u x Windows PowerShell x + v

mysql> SELECT * FROM Student10;
+-----+-----+-----+-----+-----+
| Name | Roll_No | Subject | Marks | Result |
+-----+-----+-----+-----+-----+
| Omkar | 63 | DBMS | 12 | Fail |
| Vishal | 60 | SEPM | 10 | Fail |
| Gautam | 52 | WD | 15 | Pass |
| Gunjan | 20 | EEIM | 13 | Pass |
| Kunal | 62 | IA | 15 | Pass |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> CREATE VIEW Student_Info AS SELECT Name, Roll_No FROM Student10;
Query OK, 0 rows affected (0.03 sec)

mysql> SELECT * FROM Student-Info;
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 '-Info' at line 1
mysql> SELECT * FROM Student_Info;
+-----+-----+
| Name | Roll_No |
+-----+-----+
| Omkar | 63 |
| Vishal | 60 |
| Gautam | 52 |
| Gunjan | 20 |
| Kunal | 62 |
+-----+-----+
5 rows in set (0.01 sec)

mysql> ALTER VIEW Student_Info AS
-> SELECT Name, Roll_No, Result FROM Student10;
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM Student_Info;
+-----+-----+-----+
| Name | Roll_No | Result |
+-----+-----+-----+
| Omkar | 63 | Fail |
+-----+-----+-----+
```

```
Command Prompt - mysql -u x Windows PowerShell x + v

mysql> SELECT * FROM Student-Info;
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 '-
Info' at line 1
mysql> SELECT * FROM Student_Info;
+-----+-----+
| Name   | Roll_No |
+-----+-----+
| Omkar  | 63      |
| Vishal | 60      |
| Gautam | 52      |
| Gunjan | 20      |
| Kunal  | 62      |
+-----+-----+
5 rows in set (0.01 sec)

mysql> ALTER VIEW Student_Info AS
-> SELECT Name, Roll_No, Result FROM Student10;
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM Student_Info;
+-----+-----+-----+
| Name   | Roll_No | Result |
+-----+-----+-----+
| Omkar  | 63      | Fail   |
| Vishal | 60      | Fail   |
| Gautam | 52      | Pass   |
| Gunjan | 20      | Pass   |
| Kunal  | 62      | Pass   |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> DROP VIEW Student_Info;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM Student_Info;
ERROR 1146 (42S02): Table 'stud2db.student_info' doesn't exist
mysql>
```

➤ CREATE INDEX

```
Command Prompt - mysql -u x Windows PowerShell x Windows PowerShell x + v

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\sapka> mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 31
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> USE stud2db;
Database changed
mysql> CREATE TABLE Student10(Name char(50), Roll_No int, Subject char(50), Marks float, Result char(50));
ERROR 1050 (42S01): Table 'student10' already exists
mysql> CREATE TABLE Student9(Name char(50), Roll_No int, Subject char(50), Marks float, Result char(50));
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO Student9 VALUES('Omkar',63,'DBMS',12,'Fail');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student9 VALUES('Vishal',60,'SEPM',10,'Fail');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student9 VALUES('Gautam',52,'WD',15,'Pass');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student9 VALUES('Gunjan',20,'EIM',13,'Pass');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Student9 VALUES('Kunal',62,'IA',15,'Pass');
Query OK, 1 row affected (0.01 sec)
```

