Assignment No: 02 Database Management Lab

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DDL(Data Definition Language)

Start the SQL Server

[shyam@localhost ~]\$ su

Password:

[root@localhost shyam]# systemctl start mysqld

[root@localhost shyam]# systemctl enable mysqld

[root@localhost shyam]# systemctl status mysqld

• mysqld.service - MySQL compatibility service (another name for mariadb.service; you should use mariadb.service instead)

Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled)

Active: active (exited) since Wed 2017-10-18 11:56:43 IST; 1min 39s ago

Main PID: 1453 (code=exited, status=0/SUCCESS)

CGroup: /system.slice/mysqld.service

[root@localhost shyam]# mysql

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

Your MariaDB connection id is 3

Server version: 10.0.21-MariaDB MariaDB Server

Copyright (c) 2000, 2015, Oracle, MariaDB Corporation Ab and others.

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

Creating database

MariaDB [(none)]> create database department;

Query OK, 1 row affected (0.04 sec)

Switching to the database

MariaDB [(none)]> use department;

Database changed

Create Table

MariaDB [department]> create table student(roll_no int(10),stud_name char(10),class char(10),marks int(10));

Ouery OK, 0 rows affected (0.18 sec)

ALTER TABLE

1.add:

MariaDB [department]> alter table student add result int(10); Query OK, 0 rows affected (0.86 sec)

Records: 0 Duplicates: 0 Warnings:

MariaDB [department]> describe student;

++
Field Type Null Key Default Extra
++
roll_no int(10) YES NULL
stud_name char(10) YES NULL
class char(10) YES NULL
marks int(10) YES NULL
result int(10) YES NULL
++

5 rows in set (0.17 sec) 2.modify:
MariaDB [department]> alter table student modify result char(10); Query OK, 0 rows affected (0.58 sec) Records: 0 Duplicates: 0 Warnings: 0
MariaDB [department]> describe student; ++ Field Type Null Key Default Extra ++
roll_no int(10) YES NULL
5 rows in set (0.00 sec)
MariaDB [department]> alter table student drop result; Query OK, 0 rows affected (0.23 sec) Records: 0 Duplicates: 0 Warnings: 0 MariaDB [department]> describe student; ++ Field Type Null Key Default Extra ++ roll_no int(10) YES NULL stud_name char(10) YES NULL class char(10) YES NULL
marks int(10) YES NULL ++
4 rows in set (0.00 sec)
RENAME TABLE NAME MariaDB [department]> rename table student to students; Query OK, 0 rows affected (0.17 sec)
DROP 1.drop(table): MariaDB [department]> drop table students; Query OK, 0 rows affected (0.10 sec)
2.drop(database):

MariaDB [department]> drop database department;

Query OK, 0 rows affected (0.16 sec)

MariaDB [department]> create view stud_view1 as select* from student; Query OK, 0 rows affected (0.08 sec)

VIEW

```
TO display VIEW
MariaDB [department] > select * from stud view1;
+----+
| roll no | stud name | class | marks |
+----+
  101 | Shyam | TEB | 50 |
  102 | Vinay | TEB | 60 |
  103 | Dhiraj | TEB | 60 |
   104 | Abhishek | TEB | 40 |
   105 | Mayur | TEB | 40 |
+-----+
5 rows in set (0.00 \text{ sec})
                             To create specific field view
MariaDB [department] > create view stud_view2 as select roll_no,stud_name from student;
Query OK, 0 rows affected (0.02 sec)
MariaDB [department] > select * from stud_view2;
+----+
| roll_no | stud_name |
+----+
  101 | Shyam |
  102 | Vinay
  103 | Dhiraj
  104 | Abhishek |
   105 | Mayur
+----+
5 rows in set (0.05 \text{ sec})
                          To create view for where condition
MariaDB [department]> create view stud_view3 as select* from student where marks>50;
Query OK, 0 rows affected (0.04 sec)
MariaDB [department]> select * from stud_view3;
+----+
| roll_no | stud_name | class | marks |
+----+
  102 | Vinay | TEB | 60 |
   103 | Dhiraj | TEB | 60 |
+----+
2 rows in set (0.01 sec)
MariaDB [department]> create view stud_view4 as select* from student where marks<50;
Query OK, 0 rows affected (0.04 sec)
MariaDB [department]> select * from stud_view4;
+----+
| roll_no | stud_name | class | marks |
+----+
   104 | Abhishek | TEB | 40 |
   105 | Mayur | TEB | 40 |
```

+----+

To Update view field

```
MariaDB [department]> update stud view1 set marks =73 where roll no=101;
Query OK, 1 row affected (5.40 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [department]> select * from stud_view1;
+----+
| roll_no | stud_name | class | marks |
+----+
  101 | Shyam | TEB | 73 |
  102 | Vinay | TEB | 60 |
  103 | Dhiraj | TEB | 60 |
  104 | Abhishek | TEB | 40 |
  105 | Mayur | TEB | 40 |
+----+
5 rows in set (0.00 \text{ sec})
------
                               Drop view
MariaDB [department]> drop view stud_view1;
Query OK, 0 rows affected (0.00 sec)
MariaDB [department]> select * from stud view1;
ERROR 1146 (42S02): Table 'department.stud view1' doesn't exist
MariaDB [department]>
______
                                INDEX
Single column index
MariaDB [department]> create index ind1 on student(roll no);
Query OK, 0 rows affected (0.36 sec)
Records: 0 Duplicates: 0 Warnings: 0
------
Composite index:
MariaDB [department]> create index ind2 on student(roll_no,stud_name);
Query OK, 0 rows affected (0.18 sec)
Records: 0 Duplicates: 0 Warnings: 0
_____
Unique index:
MariaDB [department] > create UNIQUE index ind3 on student(stud_name);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0
```