(base) pccoe@pc-17:~$ sudo mysql -u root [sudo] password for pccoe:

Welcome to the MySQL monitor.

# Check for existing databases:-

mysql> show databases;

+ +

| Database |

+ +

| PCCOE |

| Pccoe |

| STUDENT |

| information\_schema |

| mysql |

| pccoe |

| performance\_schema |

| st |

| stu |

| student |

| students |

| sys |

+ +

12 rows in set (0.05 sec)

# Create a new database :-

mysql> create database Pccoe2; Query OK, 1 row affected (0.16 sec)

# Check weather database is created or not :-

mysql> show databases;

+ +

| Database |

+ +

| PCCOE |

| Pccoe |

| **Pccoe2** |

| STUDENT |

| information\_schema |

| mysql |

| pccoe |

| performance\_schema |

| st |

| stu |

| student |

| students |

| sys |

+ +

13 rows in set (0.00 sec)

# Select the database which you want to use :-

mysql> use Pccoe2; Database changed

# Create a table in the database :-

mysql> create table student(PRN int(10),fname varchar(10),lname varchar(10),email varchar(10),age int);

Query OK, 0 rows affected, 1 warning (0.51 sec)

# Insert a record in the database :-

mysql> insert into student values(37,'Prem','Chaudhari','prem.com',20); Query OK, 1 row affected (0.07 sec)

# ‘describe’ function helps us to know structure of table which we created :-

mysql> describe student;

+ + + + + + +

| Field | Type | Null | Key | Default | Extra |

+ + + + + + +

| PRN | int | YES | | NULL | |

| fname | varchar(10) | YES | | NULL | |

| lname | varchar(10) | YES | | NULL | |

| email | varchar(10) | YES | | NULL | |

| age | int | YES | | NULL | |

+ + + + + + +

5 rows in set (0.00 sec)

# ‘alter’ function helps us to change the datatype or any other changes of a column :-

mysql> alter table student modify email varchar(20); Query OK, 0 rows affected (0.21 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

+ + + + + + +

| Field | Type | Null | Key | Default | Extra |

+ + + + + + +

| PRN | int | YES | | NULL | |

| fname | varchar(10) | YES | | NULL | |

| lname | varchar(10) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| age | int | YES | | NULL | |

+ + + + + + +

5 rows in set (0.00 sec)

# New record added in the table :-

mysql> insert into student values(37,'Prem','Chaudhari','prem123@gmail.com',20); Query OK, 1 row affected (0.09 sec)

# ‘select’ function helps us to display the table or allow us to access the table for any other function :-

mysql> select \* from student;

+ + + + + +

| PRN | fname | lname | email | age |

+ + + + + +

| 37 | Prem | Chaudhari | prem.com | 20 |

| 37 | Prem | Chaudhari | [prem123@gmail.com](mailto:prem123@gmail.com) | 20 |

+ + + + + +

2 rows in set (0.00 sec)

# Add a new column to the student table named year :-

mysql> alter table student add year varchar(10); Query OK, 0 rows affected (0.32 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

+ + + + + + +

| Field | Type | Null | Key | Default | Extra |

+ + + + + + +

| PRN | int | YES | | NULL | |

| fname | varchar(10) | YES | | NULL | |

| lname | varchar(10) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| year | varchar(10) | YES | | NULL | |

+ + + + + + +

6 rows in set (0.00 sec)

# ‘drop’ function is used to remove a particular column from the table :-

mysql> alter table student drop column lname; Query OK, 0 rows affected (0.32 sec)

Records: 0 Duplicates: 0 Warnings: 0

# New record added in the table :-

mysql> insert into student values(33,'Mihir','mihir12@gmail.com',20,'Second'); Query OK, 1 row affected (0.09 sec)

# New record added in the table :-

mysql> insert into student values(30,'Pankaj','pankaj32@gmail.com',21,'Third'); Query OK, 1 row affected (0.09 sec)

# New record added in the table :-

mysql> insert into student values(54,'Advait','advait23@gmail.com',18,'third'); Query OK, 1 row affected (0.09 sec)

# New record added in the table :-

mysql> insert into student values(25,'Raj','raj23@gmail.com',25,'final'); Query OK, 1 row affected (0.12 sec)

# New record added in the table :-

mysql> insert into student values(29,'Zoel','zoel56@gmail.com',21,'second'); Query OK, 1 row affected (0.08 sec)

# Display the table :-

mysql> select \* from student;

+ + + + + +

| PRN | fname | email | age | year |

+ + + + + +

| 37 | Prem | prem.com | 20 | NULL |

| 37 | Prem | [prem123@gmail.com](mailto:prem123@gmail.com) | 20 | NULL |

| 33 | Mihir | [mihir12@gmail.com](mailto:mihir12@gmail.com) | 20 | Second |

| 30 | Pankaj | [pankaj32@gmail.com](mailto:pankaj32@gmail.com) | 21 | Third |

| 54 | Advait | [advait23@gmail.com](mailto:advait23@gmail.com) | 18 | third |

| 25 | Raj | [raj23@gmail.com](mailto:raj23@gmail.com) | 25 | final |

| 29 | Zoel | [zoel56@gmail.com](mailto:zoel56@gmail.com) | 21 | second |

+ + + + + +

7 rows in set (0.00 sec)

# Delete the row in which PRN is 37 :-

mysql> delete from student where PRN=37; Query OK, 2 rows affected (0.14 sec)

mysql> select \* from student;

+ + + + + +

| PRN | fname | email | age | year |

+ + + + + +

| 33 | Mihir | [mihir12@gmail.com](mailto:mihir12@gmail.com) | 20 | Second |

| 30 | Pankaj | [pankaj32@gmail.com](mailto:pankaj32@gmail.com) | 21 | Third |

| 54 | Advait | [advait23@gmail.com](mailto:advait23@gmail.com) | 18 | third |

| 25 | Raj | [raj23@gmail.com](mailto:raj23@gmail.com) | 25 | final |

| 29 | Zoel | [zoel56@gmail.com](mailto:zoel56@gmail.com) | 21 | second |

+ + + + + +

5 rows in set (0.00 sec)

# Make the PRN column as Primary key :-

mysql> alter table student add primary key(PRN); Query OK, 0 rows affected (1.28 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from student;

+ + + + + +

| PRN | fname | email | age | year |

+ + + + + +

| 25 | Raj | [raj23@gmail.com](mailto:raj23@gmail.com) | 25 | final |

| 29 | Zoel | [zoel56@gmail.com](mailto:zoel56@gmail.com) | 21 | second |

| 30 | Pankaj | [pankaj32@gmail.com](mailto:pankaj32@gmail.com) | 21 | Third |

| 33 | Mihir | [mihir12@gmail.com](mailto:mihir12@gmail.com) | 20 | Second |

| 54 | Advait | [advait23@gmail.com](mailto:advait23@gmail.com) | 18 | third |

+ + + + + +

5 rows in set (0.00 sec)

# Update the year of the record whose PRN is 25 :-

mysql> update student set year='second' where PRN=25; Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from student;

+ + + + + +

| PRN | fname | email | age | year |

+ + + + + +

| 25 | Raj | [raj23@gmail.com](mailto:raj23@gmail.com) | 25 | second |

| 29 | Zoel | [zoel56@gmail.com](mailto:zoel56@gmail.com) | 21 | second |

| 30 | Pankaj | [pankaj32@gmail.com](mailto:pankaj32@gmail.com) | 21 | Third |

| 33 | Mihir | [mihir12@gmail.com](mailto:mihir12@gmail.com) | 20 | Second |

| 54 | Advait | [advait23@gmail.com](mailto:advait23@gmail.com) | 18 | third |

+ + + + + +

5 rows in set (0.00 sec)

# Delete all the records of the table :-

mysql> truncate table student;

Query OK, 0 rows affected (1.35 sec)

mysql> select \* from student; Empty set (0.00 sec)

mysql> describe student;

+ + + + + + +

| Field | Type | Null | Key | Default | Extra |

+ + + + + + +

| PRN | int | NO | PRI | NULL | |

| fname | varchar(10) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| year | varchar(10) | YES | | NULL | |

+ + + + + + +

5 rows in set (0.00 sec)

# Delete the entire table :-

mysql> drop table student;

Query OK, 0 rows affected (0.34 sec)

mysql> describe student;

ERROR 1146 (42S02): Table 'Pccoe2.student' doesn't exist mysql>