Krish Naik MY-SQL

Creating Databases in Mysql

In [1]:

```
### Create MySQL Connection
import mysql.connector as sql

connection = sql.connect(host="localhost",user="root",password="Aadil@78600")

print(connection)
```

```
<mysql.connector.connection_cext.CMySQLConnection object at 0x00000000051CCEC8>
```

Creating a Databases

In [2]:

```
cursor = connection.cursor()

cursor.execute("CREATE DATABASE krish5")
```

In [3]:

```
cursor.execute("show databases")
```

In [4]:

```
for databases in cursor:
    print(databases)
```

```
('information_schema',)
('aadil',)
('aadil111',)
('aadil_sql_revision',)
('gta',)
('jio',)
('krish',)
('krish2',)
('krish5',)
('mysql',)
('performance_schema',)
('sakila',)
('sme',)
('sys',)
('two_august',)
('world',)
```

Creating Tables And Inserting Records

In [5]:

```
### Create MySQL Connection And Connect
import mysql.connector as sql

connection = sql.connect(host="localhost",user="root",password="Aadil@78600",database="kr
ish5")

print(connection)
```

```
<mysql.connector.connection_cext.CMySQLConnection object at 0x0000000005C3CD88>
```

Create Table In MySQL using Python

Here, auto increment primary key, is used to give the value to first record as 1, and this value should increase after every record by 1.

In [6]:

```
cursor = connection.cursor()

cursor.execute("CREATE TABLE studentinfo(id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(
255),subject VARCHAR(255))")
```

Insert Records in Table

here, %s,%s is basically a place holder and it represent string or varchar, here it is holding values john and stats.

In [7]:

```
query = "INSERT INTO studentinfo (name, subject) VALUES (%s, %s)"
value = ("John", "Stats")
cursor.execute(query,value)
print("Row inserted",cursor.lastrowid)
```

```
Row inserted 1
```

In [8]:

```
connection.commit()
cursor = connection.cursor()
cursor.execute("select * from studentinfo")
cursor.fetchall()
```

Out[8]:

```
[(1, 'John', 'Stats')]
```

select all

In [9]:

```
cursor = connection.cursor()
cursor.execute("Select * from studentinfo")
```

In [10]:

```
### Fetch All the Data
cursor.fetchall()
```

Out[10]:

```
[(1, 'John', 'Stats')]
```

Insert Many Records in Table

In [11]:

```
### Insert multiple records in Table
query = "INSERT INTO studentinfo (name, subject) VALUES (%s, %s)"
values = [("Krish", "Stats"),
          ("Joe", "Maths"),
          ("Ankur","Data Science"),
          ("Paul","Data Science"),
          ("Vishal","Maths"),
```

```
        ("Krish","Data Science")]
cursor.executemany(query,values)
print("Row inserted",cursor.lastrowid)
```

```
Row inserted 2
```

In [12]:

```
connection.commit()
cursor = connection.cursor()
cursor.execute("select * from studentinfo")
cursor.fetchall()
```

Out[12]:

```
[(1, 'John', 'Stats'),
 (2, 'Krish', 'Stats'),
 (3, 'Joe', 'Maths'),
 (4, 'Ankur', 'Data Science'),
 (5, 'Paul', 'Data Science'),
 (6, 'Vishal', 'Maths'),
 (7, 'Krish', 'Data Science')]
```

In [13]:

```
cursor = connection.cursor()
cursor.execute("select * from studentinfo")
cursor.fetchone()
```

Out[13]:

```
(1, 'John', 'Stats')
```

Executing with the help of loops

In [4]:

```
import mysql.connector as sql

connection = sql.connect(host="localhost",user="root",password="Aadil@78600",database="krish5")
```

In [5]:

```
cursor = connection.cursor()
```

In [7]:

```
cursor.execute("select * from studentinfo")

lst = cursor.fetchall()

for record in lst:
    print(record)
```

```
(1, 'John', 'Stats')
(2, 'Krish', 'Stats')
(3, 'Joe', 'Maths')
(4, 'Ankur', 'Data Science')
(5, 'Paul', 'Data Science')
(6, 'Vishal', 'Maths')
(7, 'Krish', 'Data Science')
```

Selecting Perticular Rows

In [8]:

```
cursor.execute("Select * from studentinfo where name='Krish'")
```

In [9]:

```
### Fetch All the Data
cursor.fetchall()
```

Out[9]:

```
[(2, 'Krish', 'Stats'), (7, 'Krish', 'Data Science')]
```

Select Perticular Columns

In [10]:

```
cursor.execute("Select subject from studentinfo")

#### Fetch All
cursor.fetchall()
```

Out[10]:

```
[('Stats',),
 ('Stats',),
 ('Maths',),
 ('Data Science',),
 ('Data Science',),
 ('Maths',),
 ('Data Science',)]
```

Avoiding the Repeatating Once

In [11]:

```
## Select Distinct Columns
cursor.execute("SELECT DISTINCT subject from studentinfo")
#### Fetch All
cursor.fetchall()
```

Out[11]:

```
[('Stats',), ('Maths',), ('Data Science',)]
```

In [12]:

```
cursor.execute("SELECT name, subject FROM studentinfo WHERE name = 'Krish' OR subject = '
Data Science'")
#### Fetch All
cursor.fetchall()
```

Out[12]:

```
[('Krish', 'Stats'),
 ('Ankur', 'Data Science'),
 ('Paul', 'Data Science'),
 ('Krish', 'Data Science')]
```

Drop Table

In [13]:

```
cursor.execute("DROP TABLE studentinfo")
```