MySQL Database connectivity with Python

In [ ]:
```python
# Installing required package for establishing the connectivity
!pip install pymysql
```

In [1]:
```python
import pymysql as sql
```

In [2]:
```python
conn=sql.connect(user='root',host='localhost',password='    ',db='organisation')
```

In [3]:
```python
cur=conn.cursor()
```

In [4]:
```python
q1="""CREATE TABLE Worker ( WORKER_ID INT NOT NULL PRIMARY KEY
AUTO_INCREMENT, FIRST_NAME CHAR(25), LAST_NAME CHAR(25),
SALARY INT(15), JOINING_DATE DATETIME, DEPARTMENT CHAR(25)
);"""
cur.execute(q1)
```

Out[4]: 0

In [5]:
```python
# commit is used to save the changes made by execute() command permanently in database
conn.commit()
```

```
In [15]: q2="""INSERT INTO Worker (WORKER_ID, FIRST_NAME, LAST_NAME, SALARY,
         JOINING_DATE, DEPARTMENT) VALUES
         (001, 'Monika', 'Arora', 100000, '14-02-20 09.00.00', 'HR'),
         (002, 'Niharika', 'Verma', 80000, '14-06-11 09.00.00',
         'Admin'),
         (003, 'Vishal', 'Singhal', 300000, '14-02-20 09.00.00', 'HR'),
         (004, 'Amitabh', 'Singh', 500000, '14-02-20 09.00.00',
         'Admin'),
         (005, 'Vivek', 'Bhati', 500000, '14-06-11 09.00.00', 'Admin'),
         (006, 'Vipul', 'Diwan', 200000, '14-06-11 09.00.00',
         'Account'),
         (007, 'Satish', 'Kumar', 75000, '14-01-20 09.00.00',
         'Account'),
         (008, 'Geetika', 'Chauhan', 90000, '14-04-11 09.00.00',
         'Admin');"""
```

```
In [26]: conn.commit()
```

```
In [31]: cur.execute("select * from worker")
```

Out[31]: 8

```
In [32]: print(*list(cur.fetchall()),sep="\n")
```

```
(1, 'Monika', 'Arora', 100000, datetime.datetime(2014, 2, 20, 9, 0), 'HR')
(2, 'Niharika', 'Verma', 80000, datetime.datetime(2014, 6, 11, 9, 0), 'Admin')
(3, 'Vishal', 'Singhal', 300000, datetime.datetime(2014, 2, 20, 9, 0), 'HR')
(4, 'Amitabh', 'Singh', 500000, datetime.datetime(2014, 2, 20, 9, 0), 'Admin')
(5, 'Vivek', 'Bhati', 500000, datetime.datetime(2014, 6, 11, 9, 0), 'Admin')
(6, 'Vipul', 'Diwan', 200000, datetime.datetime(2014, 6, 11, 9, 0), 'Account')
(7, 'Satish', 'Kumar', 75000, datetime.datetime(2014, 1, 20, 9, 0), 'Account')
(8, 'Geetika', 'Chauhan', 90000, datetime.datetime(2014, 4, 11, 9, 0), 'Admin')
```

```
In [37]: cur.execute("select * from worker")
```

Out[37]: 8

In [36]: `print(list(cur.fetchone()))`

[1, 'Monika', 'Arora', 100000, datetime.datetime(2014, 2, 20, 9, 0), 'HR']

In [38]: `print(*list(cur.fetchmany(4)),sep="\n")`

(1, 'Monika', 'Arora', 100000, datetime.datetime(2014, 2, 20, 9, 0), 'HR')
(2, 'Niharika', 'Verma', 80000, datetime.datetime(2014, 6, 11, 9, 0), 'Admin')
(3, 'Vishal', 'Singhal', 300000, datetime.datetime(2014, 2, 20, 9, 0), 'HR')
(4, 'Amitabh', 'Singh', 500000, datetime.datetime(2014, 2, 20, 9, 0), 'Admin')

In [ ]: