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ADBMS LAB 4
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# Establishing MySql Connection

In [23]:

```
import mysql.connector

mydb = mysql.connector.connect(
    host = "localhost",
    user = "root",
    password = "Kushashu123",
    database = "adbms"
)
print(mydb)
```

```
<mysql.connector.connection_cext.CMySQLConnection object at 0x0000023DA5CB0340>
```

In [25]:

```
cursor = mydb.cursor(buffered = True)
cursor.execute('show tables')
for x in cursor:
    print(x)
```

```
('department_salary_total',)
('faculty',)
('instructor',)
('teaches',)
('teaches2',)
```

In [35]:

```
## Question 1
cursor.execute('SELECT * FROM instructor')
myresult = cursor.fetchall()
for x in myresult:
  print(x)
```

```
(10101, 'Srinivasan ', 'Comp. Sci.', 65000)
(12121, ' Wu', 'Finance', 90000)
(15151, 'Mozart', 'Music', 40000)
(22222, 'Einstein', 'Physics', 95000)
(32343, 'El Said', 'History', 60000)
(33456, 'Gold', 'Physics', 87000)
(45565, 'Katz', 'Comp. Sci.', 75000)
(58583, 'Califieri', 'History', 62000)
(76543, 'Singh', 'Finance', 80000)
(76766, 'Crick', 'Biology', 72000)
(83821, 'Brandt', 'Comp. Sci.', 92000)
(98345, 'Kim', 'Elec. Eng.', 80000)
```

In [32]:

```
## Question 2
cursor.execute("insert into  instructor value('10211', 'Smith', 'Biology', 66000)")
```

In [34]:

```
## Question 3
cursor.execute("delete from instructor where id =10211")
```

In [37]:

```
## Question 4
cursor.execute("select * from instructor where dept_name = 'History'")
myresult = cursor.fetchall()
for x in myresult:
  print(x)
```

```
(32343, 'El Said', 'History', 60000)
(58583, 'Califieri', 'History', 62000)
```

In [48]:

```
## Question 5
cursor.execute("select * from instructor , teaches")
myresult = cursor.fetchall()
print("Row Count ",cursor.rowcount)
for x in myresult:
  print(x)
```

```
(76543, 'Singh', 'Finance', 80000, 45565, 'CS-319', '1', 'Spring', 2018)
(58583, 'Califieri', 'History', 62000, 45565, 'CS-319', '1', 'Spring', 2018)
(45565, 'Katz', 'Comp. Sci.', 75000, 45565, 'CS-319', '1', 'Spring', 2018)
(33456, 'Gold', 'Physics', 87000, 45565, 'CS-319', '1', 'Spring', 2018)
(32343, 'El Said', 'History', 60000, 45565, 'CS-319', '1', 'Spring', 2018)
(22222, 'Einstein', 'Physics', 95000, 45565, 'CS-319', '1', 'Spring', 2018)
(15151, 'Mozart', 'Music', 40000, 45565, 'CS-319', '1', 'Spring', 2018)
(12121, ' Wu', 'Finance', 90000, 45565, 'CS-319', '1', 'Spring', 2018)
(10101, 'Srinivasan ', 'Comp. Sci.', 65000, 45565, 'CS-319', '1', 'Spring', 2018)
(98345, 'Kim', 'Elec. Eng.', 80000, 76766, 'BIO-101', '1', 'Summer', 2017)
(83821, 'Brandt', 'Comp. Sci.', 92000, 76766, 'BIO-101', '1', 'Summer', 2017)
(76766, 'Crick', 'Biology', 72000, 76766, 'BIO-101', '1', 'Summer', 2017)
(76543, 'Singh', 'Finance', 80000, 76766, 'BIO-101', '1', 'Summer', 2017)
(58583, 'Califieri', 'History', 62000, 76766, 'BIO-101', '1', 'Summer', 2017)
(45565, 'Katz', 'Comp. Sci.', 75000, 76766, 'BIO-101', '1', 'Summer', 2017)
(33456, 'Gold', 'Physics', 87000, 76766, 'BIO-101', '1', 'Summer', 2017)
(32343, 'El Said', 'History', 60000, 76766, 'BIO-101', '1', 'Summer', 2017)
(22222, 'Einstein', 'Physics', 95000, 76766, 'BIO-101', '1', 'Summer', 2017)
(15151, 'Mozart', 'Music', 40000, 76766, 'BIO-101', '1', 'Summer', 2017)
(12121, ' Wu', 'Finance', 90000, 76766, 'BIO-101', '1', 'Summer', 2017)
(10101, 'Srinivasan ', 'Comp. Sci.', 65000, 76766, 'BIO-101', '1', 'Summer', 2017)
(98345, 'Kim', 'Elec. Eng.', 80000, 76766, 'BIO-301', '1', 'Summer', 2018)
(83821, 'Brandt', 'Comp. Sci.', 92000, 76766, 'BIO-301', '1', 'Summer', 2018)
(76766, 'Crick', 'Biology', 72000, 76766, 'BIO-301', '1', 'Summer', 2018)
```

In [47]:

```
## Question 6
cursor.execute("select name from instructor a where a.id not in (select b.id from teaches b)")
myresult = cursor.fetchall()
print("Row Count ",cursor.rowcount)
for x in myresult:
  print(x)
```

```
Row Count  3
('Gold',)
('Califieri',)
('Singh',)
```

In [45]:

```
## Question 7
cursor.execute("select name from instructor where name like '%dar%'")
myresult = cursor.fetchall()
print("Row Count ",cursor.rowcount)
for x in myresult:
  print(x)
```

```
Row Count  0
```

In [46]:

```
## Question 8
cursor.execute("select name from instructor where salary between 90000 and 100000")
myresult = cursor.fetchall()
print("Row Count ",cursor.rowcount)
for x in myresult:
  print(x)
```

```
Row Count  3
(' Wu',)
('Einstein',)
('Brandt',)
```

In [ ]: