

Select Queries #2

- The Data base is as follows

Students				Dept	
Roll	name	City	Deptno	Deptno	Name
1	Ajay	Delhi	10	10	CSE
2	Vijay	Kolkata	10	20	ECE
3	Ajay	Mumbai	20	30	Civil
4	Ramesh	Delhi	30	40	Mech
5	Suneeta	Lucknow	40		
6	Anita	Kolkata	30		
7	Raj	Jaipur	30		
8	Ali	Lucknow	40		
9	Michael	Cochin	10		
10	Pavan	Vijaywada	20		
11	Suraj	Hyderabad	10		
12	Altat	Bangaluru	40		
13	Ravi	Indore	20		
14	Verma	Delhi	20		
15	Sharma	Vizag	10		

- The queries to solve are

```
6. select roll, name from Students where city not in ('Delhi', 'Hyderabad')
```

```
7. select roll, Students.name, Dept.name from Students, Dept where Students.deptno=Dept.deptno
```

Query 6 - solution

```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

rows = cur.execute("select roll,name from Students where city not in ('Delhi', 'Hyderab")

print(rows.fetchall())

cur.close()

conn.close()
```

```
C:\Users\Abdul Bari\Desktop\MyPython>python Database.py
[(2, 'Vijay'), (3, 'Ajay'), (5, 'Sunitha'), (6, 'Anitha'), (7, 'Raj'), (8, 'Ali'), (9, 'Michael'), (10, 'Pavan'), (12, 'Altaf'), (13, 'Ravi'), (15, 'Sharma')]
```

Query 7 - solution

```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

rows = cur.execute("""select roll,Students.name,Dept.name
from Students,Dept
where Students.deptno=Dept.deptno """)

print(rows.fetchall())

cur.close()

conn.close()
```

```
C:\Users\Abdul Bari\Desktop\MyPython>python Database.py
[(1, 'Ajay', 'CSE'), (2, 'Vijay', 'CSE'), (3, 'Ajay', 'ECE'), (4, 'Ramesh', 'Civil'), (5, 'Sunitha', 'Mech'), (6, 'Anitha', 'Civil'), (7, 'Raj', 'Civil'), (8, 'Ali', 'Mech'), (9, 'Michael', 'CSE'), (10, 'Pavan', 'ECE'), (11, 'Suraj', 'CSE'), (12, 'Altaf', 'Mech'), (13, 'Ravi', 'ECE'), (14, 'Verma', 'ECE'), (15, 'Sharma', 'CSE')]
```

Query 8 - solution

```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

rows = cur.execute('''select city,count(*)
                        from Students
                        group by city ''')

print(rows.fetchall())

cur.close()

conn.close()
```

```
[('Bangalore', 1), ('Cohin', 1), ('Delhi', 3), ('Hyderabad', 1), ('Indore', 1), ('Jaipur', 1), ('Kolkata', 2), ('Lucknow', 2), ('Mumbai', 4), ('Vijaywada', 1), ('Vizag', 1)]
```

Query 9 - solution

```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

rows = cur.execute('''select city,count(*)
                        from Students
                        group by city
                        having count(*)>2 ''')

print(rows.fetchall())

cur.close()

conn.close()
```

```
[('Delhi', 3)]
```

Query 10 - solution

```
import sqlite3

conn = sqlite3.connect('univ.db')

cur = conn.cursor()

rows = cur.execute('select name
                    from Students
                    where city in
                    (select city
                     from Students
                     where name='Verma') ')

print(rows.fetchall())

cur.close()

conn.close()
```

```
[('Ajay',), ('Ramesh',), ('Verma',)]
```