

1.

- a. SELECT cname FROM Cooks WHERE dish = 'lasagna';
- b. SELECT dish FROM Cooks WHERE cname = 'Alton';
- c. SELECT cname FROM Chefs WHERE addr = '68 N Marietta Pkwy';
- d. SELECT cname FROM Cooks WHERE dish = 'tamales' OR dish = 'sopapillas';
- e. SELECT cname, addr FROM Chefs, (SELECT cname FROM Cooks WHERE dish = 'escargot') CooksName WHERE Chefs.cname = CooksName.cname;

2.

- a. SELECT DEPT#, BUDGET FROM DEPT;
- b. SELECT * FROM DEPT WHERE DEPT# = 'D1' OR DEPT# = 'D2';
- c. SELECT * FROM EMP, (SELECT * FROM DEPT WHERE DEPT# = 'D1' OR DEPT# = 'D2') correctDept WHERE EMP.DEPT# = correctDept.DEPT#;
- d. SELECT EMP#, SALARY FROM EMP WHERE EMP# = 'E1' OR EMP# = 'E4';

3.

- a.

```
sqlite> .schema Cities
CREATE TABLE Cities(Name VARCHAR, Population INT, Country VARCHAR, Elevation INT);
```

- b.

```
sqlite> select * from cities;
Paris|15000000|France|1245
Santiago|12000000|Chile|2000
Sao Paulo|15000000|Brazil|200
New York|16000000|United States|134
Austin|2500000|United States|500
Beijing|7500000|China|1200
Vernon|40000|Canada|200
Vancouver|675000|Canada|101
Victoria|85000|Canada|75
Vaughan|300000|Canada|105
Los Angeles|4500000|United States|100
Detroit|1100000|United States|50
Rio de Janeiro|6700000|Brazil|23
Marseille|1000000|France|214
```

- c.

```
sqlite> SELECT AVG(Elevation) FROM Cities WHERE Country='Canada' AND Name LIKE "V%";
221.0
```


SELECT AVG(Elevation) FROM Cities WHERE Country='Canada' AND Name LIKE "V%";

```
sqlite> select Name, Population, Country from (select * from cities group by country having count(Name) < 3) group by country having max(Population);
Sao Paulo|150000000|Brazil
Santiago|125000000|Chile
Beijing|75000000|China
Paris|15000000|France
```

select Name, Population, Country from (select * from cities group by country having count(Name) < 3) group by country having max(Population);