

2.

Enter SQL commands here

1 `select distinct ID from takes;-- enter your commands here`

Execute

Save the db

Load an SQLite database file: No file chosen

ID
00128
12345
19991
23121
44553
45678
54321
55739
76543
76653
98765
98988

Enter SQL commands here

1 `select distinct name from instructor;-- enter your commands here`

Execute

Save the db

Load an SQLite database file: No file chosen

name
Srinivasan
Wu
Mozart
Einstein
El Said
Gold
Katz
Califieri
Singh
Crick
Brandt
Kim

Enter SQL commands here

1 `select distinct dept_name from department;-- enter your commands here`

Execute

Save the db

Load an SQLite database file: No file chosen

dept_name
Biology
Comp. Sci.
Elec. Eng.
Finance
History
Music
Physics

3.

Enter SQL commands here

```
1 SELECT DISTINCT s.ID, s.name
2 FROM student s
3 JOIN takes t ON s.ID = t.ID
4 JOIN course c ON t.course_id = c.course_id
5 WHERE c.dept_name = 'Comp. Sci.';
6
```

Execute

Save the db

Load an SQLite database file: No file chosen

ID	name
00128	Zhang
12345	Shankar
45678	Levy
54321	Williams
76543	Brown
98765	Bourikas

Enter SQL commands here

```
1 SELECT DISTINCT s.ID, s.name, t.grade
2 FROM student s
3 JOIN takes t ON s.ID = t.ID
4 JOIN course c ON t.course_id = c.course_id
5 WHERE c.dept_name = 'Comp. Sci.';
6
```

Execute

Save the db

Load an SQLite database file: No file chosen

ID	name	grade
00128	Zhang	A
00128	Zhang	A-
12345	Shankar	C
12345	Shankar	A
45678	Levy	F
45678	Levy	B+
45678	Levy	B
54321	Williams	A-
54321	Williams	B+
76543	Brown	A
98765	Bourikas	C-
98765	Bourikas	B

Enter SQL commands here

```
1 SELECT DISTINCT s.ID, s.name
2 FROM student s
3 WHERE s.ID NOT IN (
4     SELECT DISTINCT t.ID
5     FROM takes t
6     WHERE t.year < 2017
7 );
8
```

Execute

Save the db

Load an SQLite database file: No file chosen

ID	name
00128	Zhang
12345	Shankar
19991	Brandt
23121	Chavez
44553	Peltier
45678	Levy
54321	Williams
55739	Sanchez
70557	Snow
76543	Brown
76653	Aoi
98765	Bourikas
98988	Tanaka

Enter SQL commands here

```
1 SELECT dept_name, MAX(salary) AS max_salary
2 FROM instructor
3 GROUP BY dept_name;
4
```

Execute

Save the db

Load an SQLite database file: No file chosen

dept_name	max_salary
Biology	72000
Comp. Sci.	92000
Elec. Eng.	80000
Finance	90000
History	62000
Music	40000
Physics	95000

Enter SQL commands here

```
1 SELECT MIN(max_salary) AS lowest_max_salary
2 FROM (
3     SELECT MAX(salary) AS max_salary
4     FROM instructor
5     GROUP BY dept_name
6 ) AS max_salaries;
7
```

Execute

Save the db

Load an SQLite database file: No file chosen

lowest_max_salary
40000

Enter SQL commands here

```
1 SELECT dept_name, salary
2 FROM instructor
3 WHERE salary = (
4     SELECT MIN(max_salary)
5     FROM (
6         SELECT MAX(salary) AS max_salary
7         FROM instructor
8         GROUP BY dept_name
9     ) AS max_salaries
10 );
11
12
```

Execute

Save the db

Load an SQLite database file: No file chosen

dept_name	salary
Music	40000

4.

Enter SQL commands here

```
1 SELECT DISTINCT i.ID, i.name
2 FROM instructor i
3 JOIN teaches t ON i.ID = t.ID
4 WHERE i.ID NOT IN (
5     SELECT DISTINCT t.ID
6     FROM teaches t
7     JOIN takes tk ON t.course_id = tk.course_id
8                   AND t.sec_id = tk.sec_id
9                   AND t.semester = tk.semester
10                  AND t.year = tk.year
11     WHERE tk.grade = 'A'
12 );
13
14
```

Execute

Save the db

Load an SQLite database file: No file chosen

ID	name
12121	Wu
15151	Mozart
22222	Einstein
32343	El Said
45565	Katz
98345	Kim