

Enter SQL commands here

```
1  -- enter your commands here
2  SELECT name, tot_cred, dept_name
3  FROM student
4  WHERE dept_name = "Comp. Sci."
5  AND tot_cred >= 50
```

Execute

Save the db

Load an SQLite database file:

Choose File no file selected

name	tot_cred	dept_name
Zhang	102	Comp. Sci.
Williams	54	Comp. Sci.
Brown	58	Comp. Sci.

Enter SQL commands here

```
1 SELECT name, dept_name
2 FROM student
3 WHERE dept_name = "Comp. Sci."
4 OR dept_name = "Elec. Eng."
5 ORDER BY dept_name, name
```

Execute

Save the db

Load an SQLite database file:

Choose File no file selected

name	dept_name
Brown	Comp. Sci.
Shankar	Comp. Sci.
Williams	Comp. Sci.
Zhang	Comp. Sci.
Aoi	Elec. Eng.
Bourikas	Elec. Eng.

Enter SQL commands here

```
1 SELECT name, dept_name, salary
2 FROM instructor
3 WHERE dept_name
4 IN ("Physics", "History", "Finance", "Music")
5 ORDER BY dept_name
```

Execute

Save the db

Load an SQLite database file:

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name	dept_name	salary
Wu	Finance	90000
Singh	Finance	80000
El Said	History	60000
Califieri	History	62000
Mozart	Music	40000
Einstein	Physics	95000
Gold	Physics	87000

Enter SQL commands here

```
1  -- 4
2  SELECT DISTINCT sec_id
3  FROM section
```

Execute

Save the db

Load an SQLite database file:

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sec_id
1
2

Enter SQL commands here

```
1  -- enter your commands here
2  SELECT
3      name,
4      (SELECT MAX(salary) FROM instructor) AS max_salary
5  FROM instructor
6  WHERE max_salary = salary;
7
8  SELECT
9      name,
10     salary,
11     (SELECT MAX(salary) FROM instructor) AS max_salary,
12     ABS(salary - (SELECT MAX(salary) FROM instructor)) AS dif_salary FROM instructor;
```

Execute

Save the db

Load an SQLite database file: no file selected

name	max_salary
Einstein	95000

name	salary	max_salary	dif_salary
Srinivasan	65000	95000	30000
Wu	90000	95000	5000
Mozart	40000	95000	55000
Einstein	95000	95000	0
El Said	60000	95000	35000
Gold	87000	95000	8000
Katz	75000	95000	20000
Califieri	62000	95000	33000
Singh	80000	95000	15000
Crick	72000	95000	23000
Brandt	92000	95000	3000
Kim	80000	95000	15000

Enter SQL commands here

```
1 -- 5
2 SELECT COUNT(DISTINCT course_id) AS n_course_id FROM section;
3 SELECT DISTINCT course_id, sec_id FROM section;
```

Execute

Save the db

Load an SQLite database file:

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n_course_id
12

course_id	sec_id
BIO-101	1
BIO-301	1
CS-101	1
CS-190	1
CS-190	2
CS-315	1
CS-319	1
CS-319	2
CS-347	1
EE-181	1
FIN-201	1
HIS-351	1
MU-199	1
PHY-101	1

Enter SQL commands here

```
1  -- 7
2  SELECT title, credits, dept_name FROM course WHERE dept_name = "Comp. Sci."
```

Execute

Save the db

Load an SQLite database file:

Choose File

no file selected

title	credits	dept_name
Intro. to Computer Science	4	Comp. Sci.
Game Design	4	Comp. Sci.
Robotics	3	Comp. Sci.
Image Processing	3	Comp. Sci.
Database System Concepts	3	Comp. Sci.

Enter SQL commands here

```
1  -- 7
2  SELECT student.ID, student.name, instructor.name
3  FROM advisor, instructor, student
4  WHERE i_id = instructor.ID
5         AND instructor.name = "Katz"|
6         AND s_id = student.ID
```

Execute

Save the db

Load an SQLite database file:

Choose File

no file selected

ID	name	name
00128	Zhang	Katz
76543	Brown	Katz

Enter SQL commands here

```
1  -- 9
2  SELECT
3      name,
4      salary,
5      (salary * 1.25) AS resulting_salary,
6      (salary * 0.25) AS difference_salary, -- to match with the query in assignme
7      instructor.dept_name
8  FROM instructor, department
9  WHERE department.dept_name = instructor.dept_name
10 AND department.dept_name = "Comp. Sci."
11
```

Execute

Save the db

Load an SQLite database file:

Choose File

no file selected

name	salary	resulting_salary	difference_salary	dept_name
Srinivasan	65000	81250	16250	Comp. Sci.
Katz	75000	93750	18750	Comp. Sci.
Brandt	92000	115000	23000	Comp. Sci.

Enter SQL commands here

```
1  -- 10
2  SELECT
3      takes.ID,
4      title,
5      takes.grade,
6      takes.sec_id,
7      takes.semester,
8      takes.year
9  FROM takes, course
10 WHERE ID = "00128"
11 AND takes.course_id = course.course_id
```

Execute

Save the db

Load an SQLite database file:

Choose File no file selected

ID	title	grade	sec_id	semester	year
00128	Intro. to Computer Science	A	1	Fall	2017
00128	Database System Concepts	A-	1	Fall	2017