

Benjy Katz

1

```
benjykatz=# SELECT Student.stuId, Student.firstName, Student.lastName, Student.major,  
                    Faculty.facId, Faculty.name, Faculty.department FROM Student JOIN Facult  
y ON Student.Major != Faculty.Department  
benjykatz=# ORDER BY Student.stuId ASC;
```

stuId	firstname	lastname	major	facid	name	department
S1001	Tom	Smith	History	F101	Adams	Art
S1001	Tom	Smith	History	F105	Tanaka	CSC
S1001	Tom	Smith	History	F110	Byrne	Math
S1001	Tom	Smith	History	F221	Smith	CSC
S1002	Ann	Chin	Math	F101	Adams	Art
S1002	Ann	Chin	Math	F105	Tanaka	CSC
S1002	Ann	Chin	Math	F115	Smith	History
S1002	Ann	Chin	Math	F221	Smith	CSC
S1005	Perry	Lee	History	F101	Adams	Art
S1005	Perry	Lee	History	F105	Tanaka	CSC
S1005	Perry	Lee	History	F110	Byrne	Math
S1005	Perry	Lee	History	F221	Smith	CSC
S1010	Edward	Burns	Art	F105	Tanaka	CSC
S1010	Edward	Burns	Art	F110	Byrne	Math
S1010	Edward	Burns	Art	F115	Smith	History
S1010	Edward	Burns	Art	F221	Smith	CSC
S1013	Owen	McCarthy	Math	F101	Adams	Art
S1013	Owen	McCarthy	Math	F105	Tanaka	CSC
S1013	Owen	McCarthy	Math	F115	Smith	History
S1013	Owen	McCarthy	Math	F221	Smith	CSC
S1015	Mary	Jones	Math	F101	Adams	Art
S1015	Mary	Jones	Math	F105	Tanaka	CSC
S1015	Mary	Jones	Math	F115	Smith	History
S1015	Mary	Jones	Math	F221	Smith	CSC
S1020	Jane	Rivera	CSC	F101	Adams	Art
S1020	Jane	Rivera	CSC	F110	Byrne	Math
S1020	Jane	Rivera	CSC	F115	Smith	History

(27 rows)

2

```
benjykatz=# SELECT classNumber FROM Class  
JOIN Faculty ON Class.facID = Faculty.facID  
WHERE Faculty.name = 'Byrne' AND Faculty.department = 'Math';  
classnumber  
-----  
MTH101B  
MTH103C  
(2 rows)
```

3

```
benjykatz=# SELECT Faculty.name, Faculty.facID FROM Faculty JOIN Class
benjykatz=# ON Faculty.facID = Class.FacId
benjykatz=# WHERE Class.room = 'H221';
 name | facid
-----+-----
 Adams | F101
 Smith | F115
(2 rows)
```

4

```
benjykatz=# SELECT STUDENT.lastName, STUDENT.firstName, STUDENT.stuId FROM Student JOIN Enroll
ON Student.stuId = enroll.stuId JOIN Class ON Enroll.classNumber = Class.classNumber WHERE Cl
ass.facId = 'F110' ORDER BY Student.lastName;
 lastname | firstname | stuId
-----+-----+-----
 Burns    | Edward    | S1010
 Chin     | Ann       | S1002
 Rivera   | Jane      | S1020
(3 rows)
```

5

```
benjykatz=# SELECT DISTINCT Student.stuId, Student.lastName, Student.firstName, Student.major,
Student.credits From Enroll JOIN Student on Enroll.stuId = Student.stuId ORDER BY Student.Las
tName;
 stuId | lastname | firstname | major | credits
-----+-----+-----+-----+-----
 S1010 | Burns    | Edward    | Art   | 63
 S1002 | Chin     | Ann       | Math  | 36
 S1020 | Rivera   | Jane      | CSC   | 15
 S1001 | Smith    | Tom       | History | 90
(4 rows)
```

6

```
benjykatz=# SELECT Student.firstName, Student.lastName, Enroll.classNumber FROM Student JOIN E
nroll ON Student.stuId = Enroll.stuId WHERE Enroll.grade IS NULL;
 firstname | lastname | classnumber
-----+-----+-----
 Edward    | Burns    | MTH103C
 Edward    | Burns    | ART103A
(2 rows)
```

7

```
benjykatz=# SELECT DISTINCT Class.facId FROM Class JOIN Faculty ON Class.facId = Faculty.facID
WHERE Faculty.Department = 'History' OR Class.room = 'H221' ORDER BY Class.facId;
 facid
-----
 F101
 F115
(2 rows)
```

8

```
benjykat=# SELECT COUNT(DISTINCT Enroll.stuId) FROM Enroll;
count
-----
      4
(1 row)
```

9

```
benjykat=# SELECT SUM(Student.credits) FROM Student WHERE Student.major = 'History';
sum
-----
   93
(1 row)
```

10

```
benjykat=# SELECT stuId, lastName, firstName FROM Student ORDER BY credits DESC LIMIT 1;
stuid | lastname | firstname
-----+-----+-----
S1001 | Smith    | Tom
(1 row)
```