

Join

Professors

ProfID	FName	LName	StatusID
1	D	R	3
2	S	K	2
3	C	W	1

E-R Diagram?

JobStatus

StatusID	Name	PayBonus	Tenure
1	Professor	10000	Yes
2	Associate	1000	Yes
3	Assistant	0	No

```
SELECT *  
FROM Professors  
WHERE StatusID=3;
```

```
SELECT ProfID, LName, Name, Tenure  
FROM Professors, JobStatus  
WHERE Professors.StatusID=JobStatus.StatusID;
```

What happens? Primary Key? Index?

Join

FixInducing

BugID	FileID	TransID
1	1	100
2	1	100
3	2	150

E-R Diagram?

SourceCodeRevisions

FileID	TransID	FileText	Author
1	100	#include ...	Chadd
1	150	#include ...	Doug
2	150	/***** ...	Chadd

Files

FileID	FileName	Directory
1	main.c	src/driver
2	other.c	src/util
3	simple.c	src/datas...

```
SELECT BugID, FI.FileID, FI.TransID, Author, FileName
FROM FixInducing as FI, SourceCodeRevisions as S, Files as F
WHERE FI.FileID=S.FileID and FI.TransID=S.TransID and
      F.FileID=S.FileID
```

What happens? Primary Key? Index?

More SQL

```
DELETE FROM People WHERE PersonID=5;
```

```
DELETE FROM PEOPLE;
```

```
-- does not reset auto increment to 1
```

```
DROP TABLE People;
```

```
CREATE TABLE .....
```

```
-- does reset auto increment;
```

```
INSERT INTO People ( FName, LName, Login) VALUES  
( "Chadd", "Williams", "chadd");
```

```
LOAD DATA INFILE '/tmp/test.txt' INTO TABLE test  
COLUMNS TERMINATED BY ',';
```

```
-- /tmp/test.txt must be readable by user mysql
```

Alter Table

```
ALTER TABLE Professors  
ADD CONSTRAINT Professors_ProfID_FK  
FOREIGN KEY (ProfID) REFERENCES  
People(PersonID) ON DELETE CASCADE;
```

```
UPDATE table SET col=value [ , c=v]  
WHERE ...  
ORDER BY ...  
LIMIT ... ;
```