

#### OUTPUT 1

Example 1  
INSERT 0 1

Example 2  
ERROR: insert or update on table "employedby" violates foreign key constraint  
"employedby\_sid\_fkey"  
DETAIL: Key (sid)=(1040) is not present in table "student".

Example 3  
ERROR: duplicate key value violates unique constraint "department\_pkey"  
DETAIL: Key (deptname)=(CS) already exists.

Example 4  
NOTICE: drop cascades to 4 other objects  
DETAIL: drop cascades to constraint employedby\_sid\_fkey on table employedby  
drop cascades to constraint studentmajor\_sid\_fkey on table studentmajor  
drop cascades to constraint hasfriend\_sid1\_fkey on table hasfriend  
drop cascades to constraint hasfriend\_sid2\_fkey on table hasfriend  
ALTER TABLE  
INSERT 0 1

#### OUTPUT 2

deptname	salary
Biology	50000
CS	65000
DataScience	60000
Mathematics	70000
Physics	60000

(5 rows)

#### OUTPUT 3

sid	sname
1001	Jean
1010	Linda
1013	Lisa
1017	Latha

(4 rows)

#### OUTPUT 4

deptname
Mathematics
DataScience
Physics
CS
Biology

(5 rows)

#### OUTPUT 5

sid	sname
-----	-------

```

-----+-----
1008 | Emma
1009 | Hasan
1014 | Deepa
1018 | Arif
(4 rows)

```

OUTPUT 6

```

deptname | deptname
-----+-----
DataScience | CS
Physics | Astronomy
Astronomy | Physics
CS | DataScience
(4 rows)

```

OUTPUT 7

```

sid | sname
-----+-----
1012 | Eric
1013 | Lisa
1009 | Hasan
1010 | Linda
1005 | Megan
1017 | Latha
1014 | Deepa
1019 | John
1008 | Emma
(9 rows)

```

OUTPUT 8

```

major
-----
Biology
(1 row)

```

OUTPUT 9

```

sid | sname | salary
-----+-----+-----
1001 | Jean | 65000
1002 | Vidya | 45000
1004 | Qin | 55000
1006 | Ryan | 55000
1007 | Danielle | 50000
1008 | Emma | 50000
1009 | Hasan | 60000
1010 | Linda | 55000
1011 | Nick | 70000
1013 | Lisa | 55000
1014 | Deepa | 50000
1015 | Chris | 60000
1016 | YinYue | 55000
1017 | Latha | 60000
1018 | Arif | 50000
1019 | John | 50000

```

(16 rows)

OUTPUT 10

sid	sname
1001	Jean
1002	Vidya
1003	Anna
1004	Qin
1006	Ryan
1008	Emma
1009	Hasan
1010	Linda
1012	Eric
1014	Deepa
1015	Chris
1016	YinYue
1018	Arif

(13 rows)

OUTPUT 11

sid
1005
1012
1013
1014
1016
1017

(6 rows)

OUTPUT 12

sid	sid
1012	1002
1005	1016
1012	1015
1005	1008
1003	1006
1012	1011
1017	1004
1005	1015
1003	1018
1005	1002
1003	1016

(11 rows)

OUTPUT 13

major
CS
Biology

(2 rows)

OUTPUT 18 (b)  
?column?  
-----  
t  
(1 row)

OUTPUT 19 (b)  
?column?  
-----  
f  
(1 row)

OUTPUT 20 (b)  
?column?  
-----  
f  
(1 row)