

```

tazio=> CREATE TABLE ville(
tazio(> numville INT PRIMARY KEY,
tazio(> nomville CHAR(20),
tazio(> codepostal CHAR(5));
CREATE TABLE
tazio=> CREATE TABLE train(
tazio(> numtrain INT PRIMARY KEY,
tazio(> villedepart INT,
tazio(> villearrivee INT,
tazio(> heuredepart INT,
tazio(> heurearrivee INT,
tazio(> jour DATE,
tazio(> FOREIGN KEY (villedepart) REFERENCES ville(numville),
tazio(> FOREIGN KEY (villearrivee) REFERENCES ville(numville) );
CREATE TABLE
tazio=> CREATE TABLE passager(
tazio(> numpassager INT PRIMARY KEY,
tazio(> nompas CHAR(20),
tazio(> age INT,
tazio(> reftrain INT,
tazio(> FOREIGN KEY (reftrain) REFERENCES train(numtrain) );
CREATE TABLE

```

```

tazio=> INSERT INTO ville VALUES ('0', 'v0', '00000');
INSERT 0 1

```

```

tazio=> INSERT INTO train VALUES ('01', '0', '1', '010000', '020000', TO_DATE('01/01/2001', 'dd/mm/yyyy'));
INSERT 0 1

```

```

tazio=> INSERT INTO passager VALUES ('00', 'p01', '18', '01');
INSERT 0 1

```

```

tazio=> DELETE FROM passager ;
DELETE 30
tazio=> DELETE FROM train ;
DELETE 15
tazio=> DELETE FROM ville ;
DELETE 10

```

```

tazio=> \i /home/tazio/Cours/IBD/TP02_1-2/data01.sql
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1

```

```

tazio=> ALTER TABLE passager ADD categorie INT;
ALTER TABLE
tazio=> UPDATE passager SET categorie = 3;
UPDATE 11
tazio=> UPDATE passager SET categorie = 2 WHERE age < 18 OR age > 60;
UPDATE 3
tazio=> UPDATE passager SET categorie = 1 WHERE nompas LIKE 'R%' OR nompas LIKE 'C%';
UPDATE 6

```

```
tazio=> CREATE TABLE tarif(  
tazio(> reftrain INT,  
tazio(> categorie INT,  
tazio(> prix INT,  
tazio(> PRIMARY KEY (reftrain, categorie),  
tazio(> FOREIGN KEY (reftrain) REFERENCES train(numtrain) );  
CREATE TABLE  
tazio=> CREATE TABLE distance(  
tazio(> ville1 INT NOT NULL,  
tazio(> ville2 INT NOT NULL,  
tazio(> nbkm INT,  
tazio(> PRIMARY KEY (ville1, ville2),  
tazio(> FOREIGN KEY (ville1) REFERENCES ville(numville),  
tazio(> FOREIGN KEY (ville2) REFERENCES ville(numville) );  
CREATE TABLE
```

```
tazio=> INSERT INTO tarif VALUES (5, 2, 42);  
INSERT 0 1  
tazio=> INSERT INTO tarif VALUES (4, 'plop', 42);  
ERROR: invalid input syntax for integer: "plop"  
LINE 1: INSERT INTO tarif VALUES (4, 'plop', 42);  
      ^  
tazio=> INSERT INTO tarif VALUES (-7, 8, 42);  
ERROR: insert or update on table "tarif" violates foreign key constraint "  
tarif_reftrain_fkey"  
DETAIL: Key (reftrain)=(-7) is not present in table "train".  
tazio=>  
tazio=> DELETE FROM tarif;  
DELETE 1
```

```
tazio=> \i /home/tazio/Cours/IBD/TP02_1-2/data02.sql  
INSERT 0 1  
INSERT 0 1  
INSERT 0 1  
INSERT 0 1  
INSERT 0 1
```

```
tazio=> CREATE TABLE categorie(  
tazio(> numcat INT PRIMARY KEY,  
tazio(> intitule VARCHAR(50) );  
CREATE TABLE
```

```
tazio=> INSERT INTO categorie VALUES (1, 'Privilege du nom');  
INSERT 0 1  
tazio=> INSERT INTO categorie VALUES (2, 'Privilege Jeunes et Seniors');  
INSERT 0 1  
tazio=> INSERT INTO categorie VALUES (3, 'Aucun privilege');  
INSERT 0 1
```

```
tazio=> ALTER TABLE passager ADD CONSTRAINT fk_passCat FOREIGN KEY (categor  
ie) REFERENCES categorie(numcat);  
ALTER TABLE  
tazio=> ALTER TABLE tarif ADD CONSTRAINT fk_tarifCat FOREIGN KEY (categor  
) REFERENCES categorie(numcat);  
ALTER TABLE
```

numtrain	villedepart	villearrivee	heuredepart	heurearrivee	jour
1	1	2	10	15	2006-03-08
2	1	2	12	17	2006-03-08
3	1	2	15	20	2006-03-08
4	1	2	18	23	2006-03-08
5	2	1	10	15	2006-03-08
6	2	1	12	17	2006-03-08
7	2	1	15	20	2006-03-08
8	2	1	18	23	2006-03-08
9	1	4	6	10	2006-03-08
10	1	4	7	11	2006-03-09
11	1	4	10	14	2006-03-08
12	1	4	16	20	2006-03-08
13	4	1	6	10	2006-03-12
14	4	1	7	11	2006-03-15
15	4	1	10	14	2006-03-08
16	4	1	16	20	2006-03-08
17	2	3	7	8	2006-03-03
18	2	3	8	9	2006-03-03
19	2	3	9	10	2006-03-03
20	2	3	10	11	2006-03-03
21	2	3	11	12	2006-03-03
22	2	3	12	13	2006-03-03
23	3	2	7	8	2006-03-08
24	3	2	8	9	2006-03-08
25	3	2	9	10	2006-03-08
26	3	2	10	11	2006-03-08
27	3	2	11	12	2006-03-08
28	3	2	12	13	2006-03-08
29	2	5	14	16	2006-03-08
30	2	5	15	17	2006-03-08
31	2	5	20	22	2006-03-08
32	5	2	14	16	2006-03-08
33	5	2	15	17	2006-03-08
34	5	2	20	22	2006-03-08
35	1	5	8	16	2006-03-08
36	1	5	14	22	2006-03-08
37	5	1	8	16	2006-03-08
38	5	1	15	23	2006-03-08
39	1	8	8	16	2006-03-08
40	1	8	14	22	2006-03-08
41	8	1	8	16	2006-03-08
42	8	1	15	23	2006-03-08

(42 rows)

```
tazio=> SELECT nomville FROM ville WHERE codepostal LIKE '67%';
        nomville
```

```
-----
Strasbourg
Brumath
Souffelweyersheim
(3 rows)
```

numtrain	villedepart	villearrivee	heuredepart	heurearrivee	jour
1	1	2	10	15	2006-03-08
5	2	1	10	15	2006-03-08
9	1	4	6	10	2006-03-08
10	1	4	7	11	2006-03-09
11	1	4	10	14	2006-03-08
13	4	1	6	10	2006-03-12
14	4	1	7	11	2006-03-15
15	4	1	10	14	2006-03-08
17	2	3	7	8	2006-03-03
18	2	3	8	9	2006-03-03
19	2	3	9	10	2006-03-03
20	2	3	10	11	2006-03-03
21	2	3	11	12	2006-03-03
23	3	2	7	8	2006-03-08
24	3	2	8	9	2006-03-08
25	3	2	9	10	2006-03-08
26	3	2	10	11	2006-03-08
27	3	2	11	12	2006-03-08
35	1	5	8	16	2006-03-08
37	5	1	8	16	2006-03-08
39	1	8	8	16	2006-03-08
41	8	1	8	16	2006-03-08

(22 rows)

```
tazio=> SELECT nbkm FROM distance ;
nbkm
```

```
-----
480
580
500
700
20
12
800
780
820
760
90
480
10
50
55
12
```

(16 rows)

```
tazio=> SELECT nbkm FROM distance WHERE nbkm > 60;
nbkm
```

```
-----
480
580
500
700
800
780
820
760
90
480
```

(10 rows)

```
tazio=> SELECT numtrain, (heurearrivee - heuredepart) FROM train WHERE (heurearrivee - heuredepart) > 5;
```

```
numtrain | ?column?
-----+-----
35 | 8
36 | 8
37 | 8
38 | 8
39 | 8
40 | 8
41 | 8
42 | 8
```

(8 rows)

```
tazio=> SELECT jour FROM train WHERE heuredpart < 10;
      jour
-----
2006-03-08
2006-03-09
2006-03-12
2006-03-15
2006-03-03
2006-03-03
2006-03-03
2006-03-08
2006-03-08
2006-03-08
2006-03-08
2006-03-08
2006-03-08
2006-03-08
(14 rows)
```

```
tazio=> SELECT intitule FROM categorie ;
      intitule
-----
Privilege du nom
Privilege Jeunes et Seniors
Aucun privilege
(3 rows)
```