

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto employee public@employee

*<employee> Script *<employee> create-dbs.sql X public

```
-- table department
DROP TABLE IF EXISTS department;
CREATE TABLE department (
  departmentID serial NOT NULL PRIMARY KEY, -- serial -> auto increment
  name varchar(30)
);

INSERT INTO department (departmentID, name)
VALUES
(1, 'Dep_analit'),
(2, 'Dep_prog'),
(3, 'Dep_admin');

-- table employee1
DROP TABLE IF EXISTS employee1;
CREATE TABLE employee (
  employeeID serial NOT NULL PRIMARY KEY,
  name varchar(80),
  job varchar(30),
  departmentID int NOT NULL,
  FOREIGN KEY (departmentID) REFERENCES department(departmentID)
);

-- table employee
DROP TABLE IF EXISTS employee;
```

Statistics 1 X

Name	Value
Updated Rows	3
Query	CREATE TABLE department (departmentID serial NOT NULL PRIMARY KEY, -- serial -> auto increment name varchar(30)); INSERT INTO department (departmentID, name) VALUES (1, 'Dep_analit'), (2, 'Dep_prog'), (3, 'Dep_admin')
Start time	Wed Mar 27 15:55:07 MSK 2024
Finish time	Wed Mar 27 15:55:07 MSK 2024

MSK en_US Writable Smart Insert 6:1 [233] Sel: ... | 10

FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLCommitRollbackAutoemployeepublic@employee

<employee> Script<employee> create-dbs.sql Xpublic

```
-- table employee
DROP TABLE IF EXISTS employee;
CREATE TABLE employee (
  employeeID serial NOT NULL PRIMARY KEY,
  name varchar(80),
  job varchar(30),
  departmentID int NOT NULL,
  CONSTRAINT "DEP"
    FOREIGN KEY (departmentID)
      REFERENCES department(departmentID)
);

INSERT INTO employee (employeeID, name, job, departmentID)
VALUES
(100, 'Smit N.', 'Programmer', 2),
(101, 'Stone J.', 'manager', 3),
(102, 'Asser M.', 'analitic', 1),
(103, 'Wood N.', 'Programmer', 2),
(104, 'Thomson L.', 'Programmer', 2);
```

Statistics 1 X

Name	Value
Updated Rows	5

Query

-- table employee
DROP TABLE IF EXISTS employee;
CREATE TABLE employee (
 employeeID serial NOT NULL PRIMARY KEY,
 name varchar(80),
 job varchar(30),
 departmentID int NOT NULL,
 CONSTRAINT "DEP"
 FOREIGN KEY (departmentID)
 REFERENCES department(departmentID)
);
INSERT INTO employee (employeeID, name, job, departmentID)
VALUES
(100, 'Smit N.', 'Programmer', 2),
(101, 'Stone J.', 'manager', 3),
(102, 'Asser M.', 'analitic', 1),
(103, 'Wood N.', 'Programmer', 2),
(104, 'Thomson L.', 'Programmer', 2)

Start timeWed Mar 27 15:56:44 MSK 2024

MSK en_US WritableSmart Insert35 : 40 : 884Sel: 0 | 0

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto employee public@employee

*<employee> Script *<employee> create-dbs.sql X public

```
● INSERT INTO employee (employeeID, name, job, departmentID)
VALUES
(100, 'Smit N.', 'Programmer', 2),
(101, 'Stone J.', 'manager', 3),
(102, 'Asser M.', 'analitic', 1),
(103, 'Wood N.', 'Programmer', 2),
(104, 'Thomson L.', 'Programmer', 2);

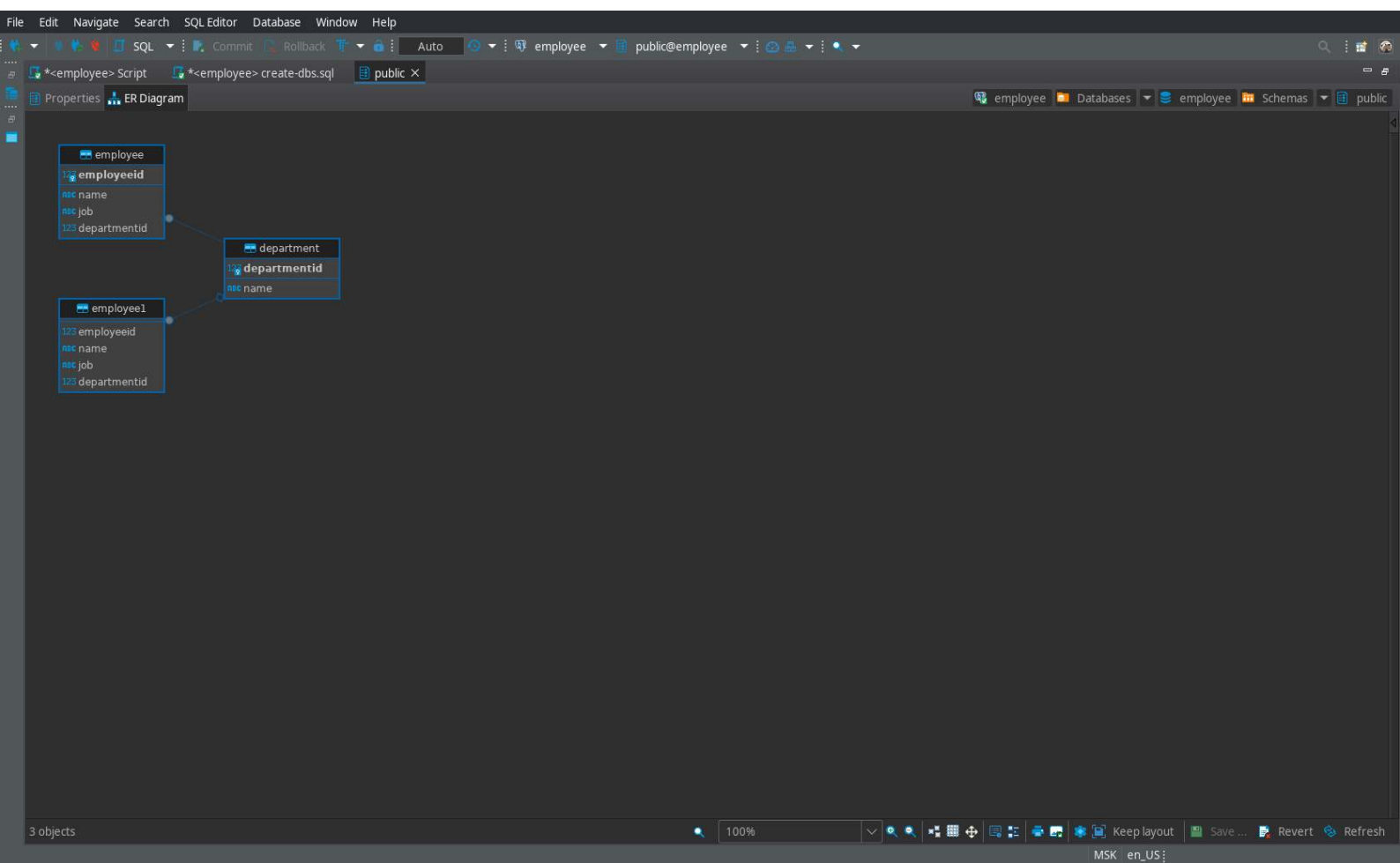
● -- table employee1
DROP TABLE IF EXISTS employee1;
● CREATE TABLE employee1 AS (
  SELECT * FROM employee
);

● ALTER TABLE employee1
  ADD CONSTRAINT "DEP"
  FOREIGN KEY (departmentID)
  REFERENCES department(departmentID);
```

Statistics 1 X

Name	Value
Updated Rows	5
Query	-- table employee1 DROP TABLE IF EXISTS employee1; CREATE TABLE employee1 AS (SELECT * FROM employee); ALTER TABLE employee1 ADD CONSTRAINT "DEP" FOREIGN KEY (departmentID) REFERENCES department(departmentID)
Start time	Wed Mar 27 15:58:29 MSK 2024
Finish time	Wed Mar 27 15:58:29 MSK 2024

MSK en_US Writable Smart Insert 37:1 [234] Sel: ... | 10



File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto employee public@employee

*<employee> Script <employee> create-dbs.sql x public

```
);  
  
● ALTER TABLE employee1  
  ADD CONSTRAINT "DEP"  
  FOREIGN KEY (departmentID)  
  REFERENCES department(departmentID);  
  
● INSERT INTO employee (name, job, departmentID)  
VALUES  
  ('Wirt C', 'Programmer', 5);  
  
● INSERT INTO department  
VALUES  
  (10, 'Test DELETE');  
  
● INSERT INTO employee (name, job, departmentID)  
VALUES  
  ('Wirt C', 'Programmer', 10);  
  
SELECT * FROM department;
```

department 1 x

SELECT * FROM department Enter a SQL expression to filter results (use Ctrl+Space)

SQL Error [23503]: ERROR: insert or update on table "employee" violates foreign key constraint "DEP"
Detail: Key (departmentid)=(5) is not present in table "department".
Error position: Details>>

```
INSERT INTO employee (name, job, departmentID)  
VALUES  
  ('Wirt C', 'Programmer', 5)
```

Refresh Save Cancel Export data 200 4

SQL Error [23503]: ERROR: insert or update on table "employee" violates foreign key constraint "DEP"% Detail: Key (departmentid)=(5) is not present in table "department".
MSK en_US Writable Smart Insert 48:22:1146 Sel: 0 | 0

FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLCommitRollbackAutoemployeepublic@employee

<employee> Script<employee> create-dbs.sql Xpublic

```
SELECT * FROM employee
);

ALTER TABLE employee1
ADD CONSTRAINT "DEP"
FOREIGN KEY (departmentID)
REFERENCES department(departmentID);

INSERT INTO employee1 (name, job, departmentID)
VALUES
('Wirt C', 'Programmer', 5);

INSERT INTO department
VALUES
(10, 'Test DELETE');

INSERT INTO employee (name, job, departmentID)
VALUES
('Wirt C', 'Programmer', 10);
```

Statistics 1 X

Name	Value
Updated Rows	1
Query	INSERT INTO department VALUES (10, 'Test DELETE')
Start time	Wed Mar 27 16:00:22 MSK 2024
Finish time	Wed Mar 27 16:00:22 MSK 2024

MSK en_US WritableSmart Insert53:8:1244Sel: 0 | 0

FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLCommitRollbackAutoemployeepublic@employee

*<employee> Script<employee> create-dbs.sql xpublic

```
);

● ALTER TABLE employee1
  ADD CONSTRAINT "DEP"
  FOREIGN KEY (departmentID)
  REFERENCES department(departmentID);

● INSERT INTO employee (name, job, departmentID)
  VALUES
    ('Wirt C', 'Programmer', 5);

● INSERT INTO department
  VALUES
    (10, 'Test DELETE');

● INSERT INTO employee (name, job, departmentID)
  VALUES
    ('Wirt C', 'Programmer', 10);

SELECT * FROM department;
```

Statistics 1 x

Name	Value
Updated Rows	1
Query	INSERT INTO employee (name, job, departmentID) VALUES ('Wirt C', 'Programmer', 10)
Start time	Wed Mar 27 16:04:10 MSK 2024
Finish time	Wed Mar 27 16:04:10 MSK 2024

MSK en_US WritableSmart Insert56 : 21 : 1288Sel: 0 | 0

File Edit Navigate Search SQL Editor Database Window Help

Auto employee public@employee

*<employee> Script <employee> create-dbs.sql public

```
);  
  
● ALTER TABLE employee1  
  ADD CONSTRAINT "DEP"  
  FOREIGN KEY (departmentID)  
  REFERENCES department(departmentID);  
  
● INSERT INTO employee (name, job, departmentID)  
  VALUES  
  ('Wirt C', 'Programmer', 5);  
  
● INSERT INTO department  
  VALUES  
  (10, 'Test DELETE');  
  
● INSERT INTO employee (name, job, departmentID)  
  VALUES  
  ('Wirt C', 'Programmer', 10);  
  
SELECT * FROM department;
```

department 1 x

SELECT * FROM department Enter a SQL expression to filter results (use Ctrl+Space)

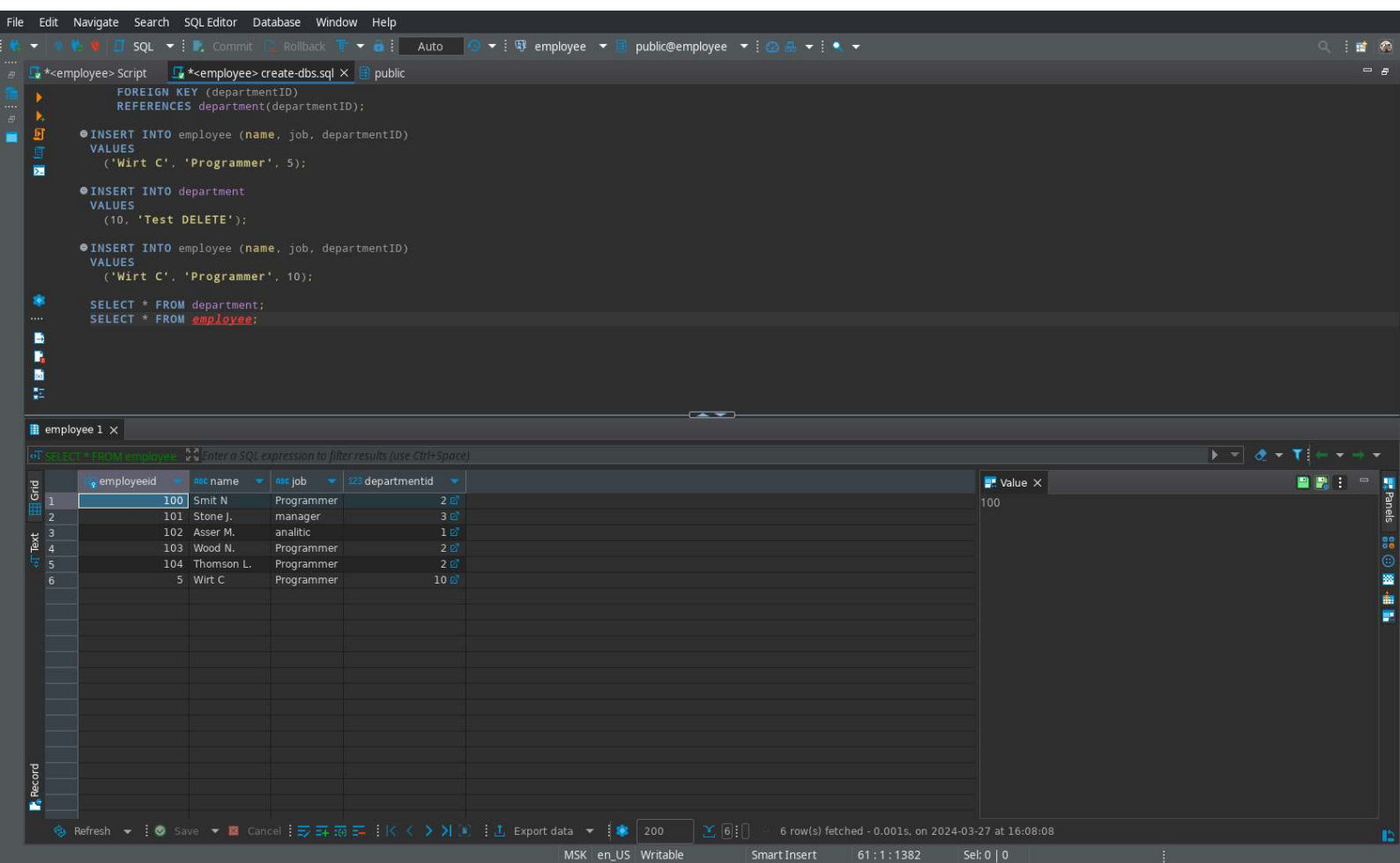
	departmentid	name
1	1	Dep_analit
2	2	Dep_prog
3	3	Dep_admin
4	10	Test DELETE

Value x

1

Refresh Save Cancel Export data 200 4 4 row(s) fetched - 0.000s. on 2024-03-27 at 16:04:27

MSK en_US Writable Smart Insert 60:25:1380 Set: 0 | 0



File Edit Navigate Search SQL Editor Database Window Help

SQL Editor: employee public@employee

Script: create-dbs.sql

```
VALUES
('Wirt C', 'Programmer', 5);

● INSERT INTO department
VALUES
(10, 'Test DELETE');

● INSERT INTO employee (name, job, departmentID)
VALUES
('Wirt C', 'Programmer', 10);

SELECT * FROM department;
SELECT * FROM employee;

● DELETE FROM employee
WHERE employeeID = 5;

● DELETE FROM department
WHERE departmentID = 10;

DROP TABLE department;
```

employee 1 x

SQL Editor: SELECT * FROM employee

	employeeid	name	job	departmentid
1	100	Smit N.	Programmer	2
2	101	Stone J.	manager	3
3	102	Asser M.	analitic	1
4	103	Wood N.	Programmer	2
5	104	Thomson L.	Programmer	2

Value X: 100

5 row(s) fetched - 0.001s. on 2024-03-27 at 16:09:21

MSK en_US Writable Smart Insert 61:1:1382 Sel: 0 | 0

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto employee public@employee

*<employee> Script *<employee> create-dbs.sql X public

```
( 'Wirt C', 'Programmer', 5);

● INSERT INTO department
VALUES
(10, 'Test DELETE');

● INSERT INTO employee (name, job, departmentID)
VALUES
('Wirt C', 'Programmer', 10);

SELECT * FROM department;
SELECT * FROM employee;

● DELETE FROM employee
WHERE employeeID = 5;

● DELETE FROM department
WHERE departmentID = 10;

DROP TABLE department;

SELECT * FROM employee;
SELECT * FROM department;
```

department 1 X

SELECT * FROM department Enter a SQL expression to filter results (use Ctrl+Space)

	departmentid	name
1	1	Dep_analit
2	2	Dep_prog
3	3	Dep_admin

Value X

1

Refresh Save Cancel Export data 200 3 row(s) fetched - 0.001s. on 2024-03-27 at 16:10:18

MSK en_US Writable Smart Insert 72:26:1590 Sel: 0 | 0

FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQL

CommitRollback

Auto

employee

public@employee

*<employee> Script

*<employee> create-dbs.sql X

public

SQL Editor

```
( 'Wirt C', 'Programmer', 5);

●INSERT INTO department
VALUES
(10, 'Test DELETE');

●INSERT INTO employee (name, job, departmentID)
VALUES
('Wirt C', 'Programmer', 10);

SELECT * FROM department;
SELECT * FROM employee;

●DELETE FROM employee
WHERE employeeID = 5;

●DELETE FROM department
WHERE departmentID = 10;

SELECT * FROM employee;
SELECT * FROM department;

DROP TABLE employee1;
```

Statistics 1 X

Name	Value
Updated Rows	0
Query	DROP TABLE employee1
Start time	Wed Mar 27 16:11:58 MSK 2024
Finish time	Wed Mar 27 16:11:58 MSK 2024

MSK

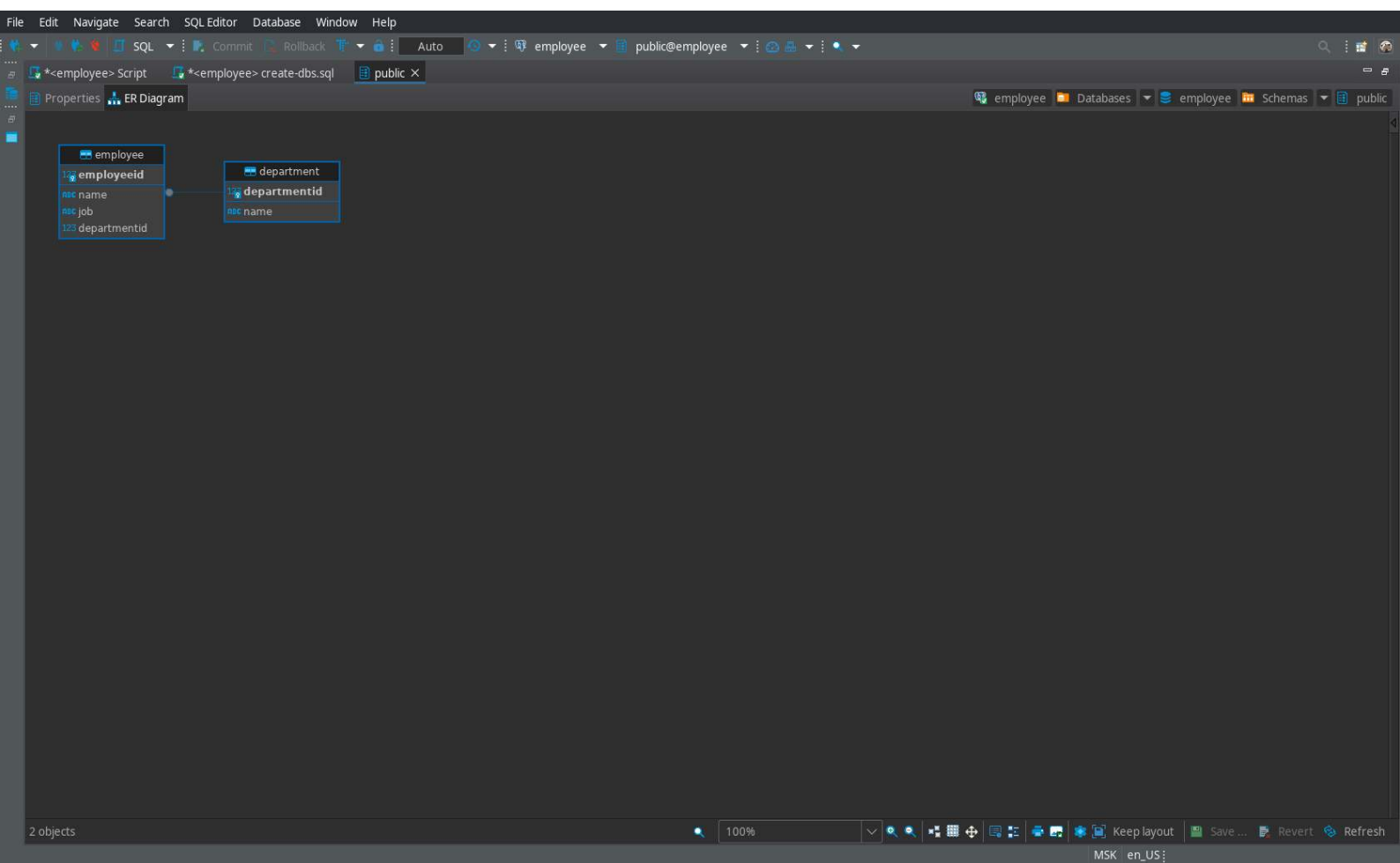
en_US

Writable

Smart Insert

72 : 1 : 1566

Set: 0 | 0



FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLCommitRollbackAutoemployeepublic@employee

<employee> Script<employee> create-dbs.sql Xpublic

```
SELECT * FROM department;
SELECT * FROM employee;

●DELETE FROM employee
  WHERE employeeID = 5;

●DELETE FROM department
  WHERE departmentID = 10;

SELECT * FROM employee;
SELECT * FROM department;

DROP TABLE employee1;

●CREATE TABLE employeeSkills (
  employeeID int REFERENCES employee(employeeID),
  skill varchar(15),
  PRIMARY KEY (employeeID, skill)
);
```

Statistics 1 X

Name	Value
Updated Rows	0
Query	CREATE TABLE employeeSkills (employeeID int REFERENCES employee(employeeID), skill varchar(15), PRIMARY KEY (employeeID, skill))
Start time	Wed Mar 27 16:27:26 MSK 2024
Finish time	Wed Mar 27 16:27:26 MSK 2024

MSK en_US WritableSmart Insert76 : 23 : 1695Sel: 0 | 0

FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLCommitRollbackAutoemployeepublic@employee

<employee> Script<employee> create-dbs.sql Xpublic

●DELETE FROM department
WHERE departmentID = 10;

SELECT * FROM employee;
SELECT * FROM department;

DROP TABLE employee1;

●CREATE TABLE employeeSkills (
employeeID int REFERENCES employee(employeeID),
skill varchar(15),
PRIMARY KEY (employeeID, skill)
);

●CREATE TABLE client (
clientID serial PRIMARY KEY,
name varchar(40),
address varchar(100),
contactPerson varchar(80),
contactNumber varchar(80)
);

Statistics 1 X

Name	Value
Updated Rows	0
Query	CREATE TABLE client (clientID serial PRIMARY KEY, name varchar(40), address varchar(100), contactPerson varchar(80), contactNumber varchar(80))
Start time	Wed Mar 27 16:30:11 MSK 2024
Finish time	Wed Mar 27 16:30:11 MSK 2024

MSK en_US WritableSmart Insert85 : 30 : 1899Sel: 0 | 0

FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQL

CommitRollback

Auto

employee

public@employee

*<employee> Script

*<employee> create-dbs.sql

public

PRIMARY KEY (employeeID, skill)

);

•CREATE TABLE client (

clientID serial PRIMARY KEY,

name varchar(40),

address varchar(100),

contactPerson varchar(80),

contactNumber varchar(80)

);

•CREATE TABLE "assignment" (

clientID int REFERENCES client(clientID),

employeeID int REFERENCES employee(employeeID),

workdate date,

hours float

);

....

Statistics 1

Name	Value
Updated Rows	0
Query	CREATE TABLE "assignment" (<div>clientID int REFERENCES client(clientID),</div> <div>employeeID int REFERENCES employee(employeeID),</div> <div>workdate date,</div> <div>hours float</div> <div>)</div>
Start time	Wed Mar 27 16:33:20 MSK 2024
Finish time	Wed Mar 27 16:33:20 MSK 2024

MSK

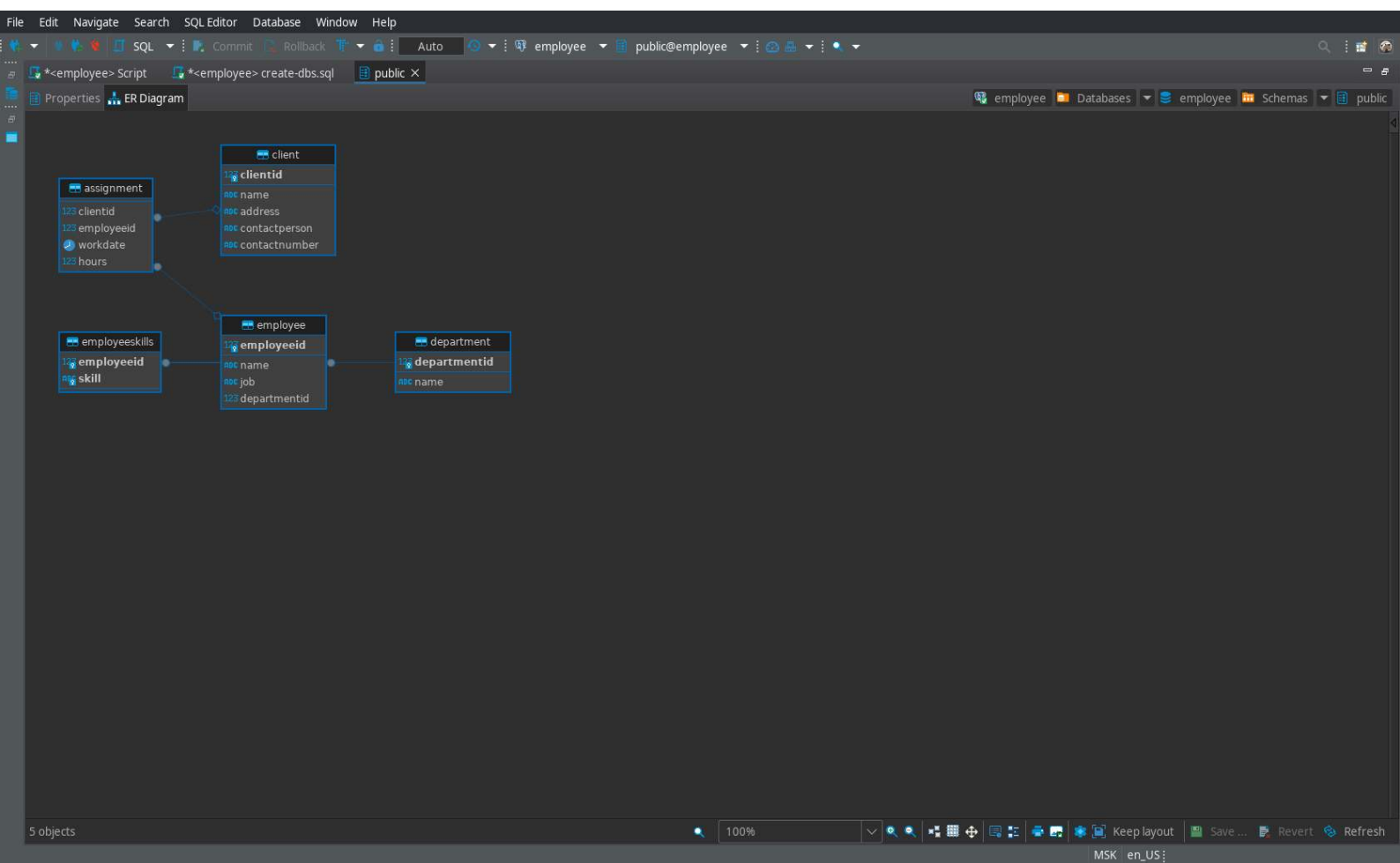
en_US

Writable

Smart Insert

89 : 35 : 1966

Set: 0 | 0



FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLCommitRollbackAutoemployeepublic@employee

<employee> Script<employee> create-dbs.sql Xpublic

```
contactPerson varchar(80),
contactNumber varchar(80)
);

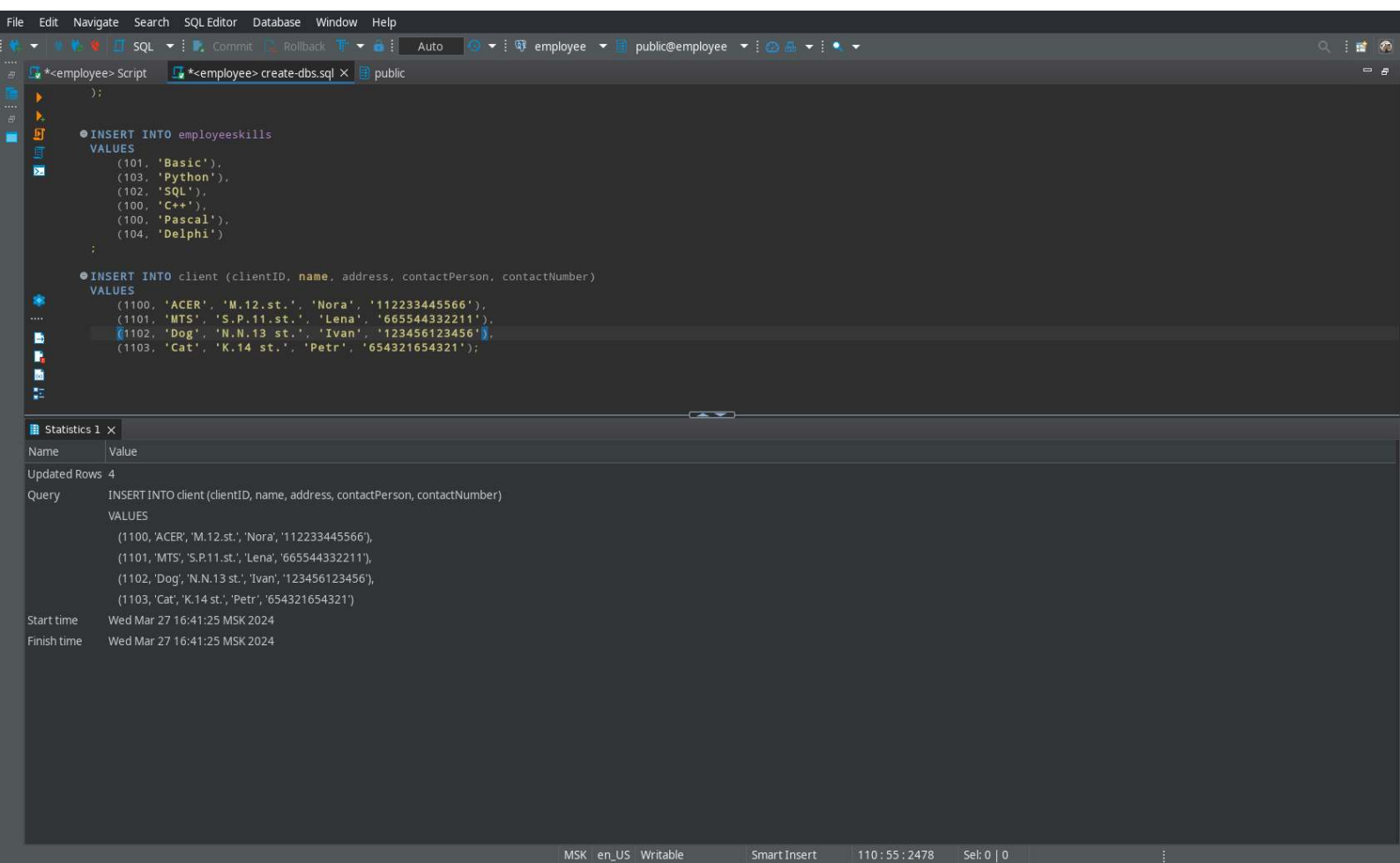
CREATE TABLE "assignment" (
  clientID int REFERENCES client(clientID),
  employeeID int REFERENCES employee(employeeID),
  workdate date,
  hours float
);

INSERT INTO employeeskills
VALUES
  (101, 'Basic'),
  (103, 'Python'),
  (102, 'SQL'),
  (100, 'C++'),
  (100, 'Pascal'),
  (104, 'Delphi')
;
```

Statistics 1 X

Name	Value
Updated Rows	6
Query	INSERT INTO employeeskills VALUES (101, 'Basic'), (103, 'Python'), (102, 'SQL'), (100, 'C++'), (100, 'Pascal'), (104, 'Delphi')
Start time	Wed Mar 27 16:37:34 MSK 2024
Finish time	Wed Mar 27 16:37:34 MSK 2024

MSK en_US WritableSmart Insert104 : 2 : 2225Sel: 0 | 0



FileEditNavigateSearchSQL EditorDatabaseWindowHelp

SQLAutoemployeepublic@employee

<employee> Script<employee> create-dbs.sql Xpublic

(103, 'Python'),
(102, 'SQL'),
(100, 'C++'),
(100, 'Pascal'),
(104, 'Delphi')
;

●INSERT INTO client (clientID, name, address, contactPerson, contactNumber)
VALUES
(1100, 'ACER', 'M.12.st.', 'Nora', '112233445566'),
(1101, 'MTS', 'S.P.11.st.', 'Lena', '665544332211'),
(1102, 'Dog', 'N.N.13 st.', 'Ivan', '123456123456'),
(1103, 'Cat', 'K.14 st.', 'Petr', '654321654321');

●INSERT INTO "assignment" (clientID, employeeID, workdate, hours)
VALUES
.....
(1100, 100, '2009-01-10', 120),
(1101, 101, '2008-11-01', 10),
(1102, 102, '2009-12-10', 70),
(1103, 102, '2009-02-01', 100);

Statistics 1 X

Name	Value
Updated Rows	4
Query	INSERT INTO "assignment" (clientID, employeeID, workdate, hours) VALUES (1100, 100, '2009-01-10', 120), (1101, 101, '2008-11-01', 10), (1102, 102, '2009-12-10', 70), (1103, 102, '2009-02-01', 100)
Start time	Wed Mar 27 16:43:52 MSK 2024
Finish time	Wed Mar 27 16:43:52 MSK 2024

MSK en_US WritableSmart Insert118 : 36 : 2751Sel: 0 | 0

