



VINAYAK SAHU

commands.sql



NEW

POSTGRESQL ▾

RUN ▶



```
1 -- Create Departments table
2 CREATE TABLE Departments (
3     dept_id INT PRIMARY KEY,
4     dept_name VARCHAR(50) UNIQUE
5 );
6
7 -- Create Courses table
8 CREATE TABLE Courses (
9     course_id INT PRIMARY KEY,
10    course_name VARCHAR(100),
11    dept_id INT,
12    FOREIGN KEY (dept_id) REFERENCES Departments(dept_id)
13 );
14
```

STDIN

Input for the program ( Optional )

Output:

CREATE TABLE  
CREATE TABLE



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```
1  -- Create Departments table
2  CREATE TABLE Departments (
3      dept_id INT PRIMARY KEY,
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8  CREATE TABLE Courses (
9      course_id INT PRIMARY KEY,
10     course_name VARCHAR(100),
11     dept_id INT,
12     FOREIGN KEY (dept_id) REFERENCES Departments(dept_id)
13 );
14 -- Insert departments
15 INSERT INTO Departments (dept_id, dept_name) VALUES
16 (1, 'Computer Science'),
17 (2, 'Electrical'),
18 (3, 'Mechanical'),
19 (4, 'Civil'),
20 (5, 'Electronics');
21
22 -- Insert courses
23 INSERT INTO Courses (course_id, course_name, dept_id) VALUES
24 (101, 'DBMS', 1),
25 (102, 'Operating Systems', 1),
26 (103, 'Power Systems', 2),
27 (104, 'Digital Circuits', 2),
28 (105, 'Thermodynamics', 3),
29 (106, 'Fluid Mechanics', 3),
30 (107, 'Structural Engineering', 4),
31 (108, 'Surveying', 4),
32 (109, 'Embedded Systems', 5),
33 (110, 'VLSI Design', 5);
34
```

STDIN

Input for the program ( Optional )

Output:

```
CREATE TABLE
CREATE TABLE
INSERT 0 5
INSERT 0 10
```



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28 (105, 'Thermodynamics', 3),
29 (106, 'Fluid Mechanics', 3),
30 (107, 'Structural Engineering', 4),
31 (108, 'Surveying', 4),
32 (109, 'Embedded Systems', 5),
33 (110, 'VLSI Design', 5);
34
35 SELECT dept_name
36 FROM Departments
37 WHERE dept_id IN (
38     SELECT dept_id
39     FROM Courses
40     GROUP BY dept_id
41     HAVING COUNT(*) > 2
42 );
43 |
```

STDIN

Input for the program ( Optional )

Output:

```
CREATE TABLE
CREATE TABLE
INSERT 0 5
INSERT 0 10
 dept_name
-----
(0 rows)
```



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33 (110, 'VLSI Design', 5);  
34  
35 SELECT dept_name  
36 FROM Departments  
37 WHERE dept_id IN (  
38     SELECT dept_id  
39     FROM Courses  
40     GROUP BY dept_id  
41     HAVING COUNT(*) > 2  
42 );  
43  
44 CREATE ROLE viewer_user LOGIN PASSWORD 'securepassword';  
45 GRANT SELECT ON Courses TO viewer_user;
```

STDIN

Input for the program ( Optional )

Output:

```
CREATE TABLE  
CREATE TABLE  
INSERT 0 5  
INSERT 0 10  
dept_name  
-----  
(0 rows)
```

psql:commands.sql:44: ERROR: permission denied to create role