- Difference between SQL and PSQL
 - → PSQL is an object-relational database, while Microsoft SQL Server is a relational database system. This means PostgreSQL offers more complex data types and allows object inheritance, though it also makes working with PostgreSQL more complex.
 - → PSQL is casesensitive and SQL is not
 - → PSQL has more data-types then SQL
- install psql if not installed
 - → sudo apt-get install postgresql
- 3. Create DataBase
 - → createdb employees

Get into the database

→ psql -d employees -U odoo

```
odoo@ICAPC0015:~$ psql -l
                             List of databases
                      | Encoding | Collate | Ctype |
   Name
              0wner
                                                        Access privileges
                                             en_IN
 employees | odoo
                        UTF8
                                   en_IN
 postgres
             postgres
                        UTF8
                                   en_IN
                                              en_IN
 template0 |
                        UTF8
                                             en_IN | =c/postgres
             postgres
                                   en IN
                                                      postgres=CTc/postgres
 template1
             postgres
                        UTF8
                                   en_IN
                                              en_IN
                                                      =c/postgres
                                                      postgres=CTc/postgres
(4 rows)
odoo@ICAPC0015:~$ psql -d employees -U odoo
psql (14.15 (Ubuntu 14.15-0ubuntu0.22.04.1))
Type "help" for help.
```

4. Create tables

- → CREATE TABLE Employees(Employee_ID INT PRIMARY KEY, Employee_Name VARCHAR(100), Department VARCHAR(50));
- →CREATE TABLE Projects(Project_ID INT PRIMARY KEY, Project_Name VARCHAR(100), Employee_ID INT REFERENCES Employees(Employee_ID));

employees=> CREATE TABLE Projects(Project_ID INT PRIMARY KEY, Project_Name VARCHAR(100), Employee_ID INT REFERENCES Employees(Employee_ID)); CREATE TABLE

5. Insert data into table

- → INSERT INTO Employees(Employee_ID, Employee_Name, Department) VALUES (1530, 'Vishant Bhavsar', 'REP'), (1560, 'Chahat Shah', 'ERP'), (1590, 'Rushabh Bhavsar', 'Sells');
- →INSERT INTO Projects(Project_ID, Project_Name, Employee_ID) VALUES (1010, 'Website Redesign', 1530), (1100, 'Recruitment Drive', 1560), (1250, 'Ad Campaign', 1590);

```
employees=> INSERT INTO Employees(Employee_ID, Employee_Name, Department) VALUES (1530, 'Vishant Bhavsar', 'REP'), (1560, 'Chahat Shah', 'ER
), (1590, 'Rushabh Bhavsar', 'Sells');
INSERT 0 3
employees=> INSERT INTO Projects(Project_ID, Project_Name, Employee_ID) VALUES (1010, 'Website Redesign', 1530), (1100, 'Recruitment Drive',
560), (1250, 'Ad Campaign', 1590);
INSERT 0 3
```

→ SELECT * FROM Employees; SELECT * FROM Projects;

```
employees=> SELECT * FROM Employees; SELECT * FROM Projects;
employee_id | employee_name | department

1530 | Vishant Bhavsar | REP
1560 | Chahat Shah | ERP
1590 | Rushabh Bhavsar | Sells

(3 rows)

project_id | project_name | employee_id

1010 | Website Redesign | 1530
1100 | Recruitment Drive | 1560
1250 | Ad Campaign | 1590

(3 rows)
```

6. Print the table

→ SELECT Employees.Employee_Name, Projects.Project_Name FROM Employees INNER JOIN Projects ON Employees.Employee_ID = Projects.Employee_ID;