



PostgreSQL

TRAINING EXCERCISE



POSTGRESQL

- 1) Create a user with only database create access rights.
- 2) Create a user with superuser access rights.
- 3) Create a user with database creation, superuser and role creation access rights.
- 4) Drop any one of the users which you have created.
- 5) Alter any one user's password with your desired password.
- 6) Create a database.
- 7) Delete a database which is created.
- 8) Create a database and add a table employee with specified fields.
 - Employee ID
 - Name
 - Email
 - Phone no
 - Designation
 - Department
 - Birth Date
 - Join Date



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9) Modify the table and add two fields as following.

- Level
- Qualification

10) Modify a table and Delete a column from the table.

11) Insert 10 records with unique employee ids in the employee table.

12) Update all the records together. Update only one field.

13) Delete a single record from a table.

14) Delete all the records from a table using Delete.

15) Delete all the records from a table without using Delete.

16) Write a select query with multiple conditions using 'AND' and 'OR'.

17) Create a table employee where it contains id, name, city. Find the city which ends with 'abad'. Enter 30 records scattered in different cities like Hyderabad, Ahmedabad, Mumbai, Delhi, Chennai, Kochin, Kolkatta, Pune, Bangalore.

18) Search records where the city contains the string 'under'.

19) Search records where the third last character of the city is 'b'.



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- 20) Search the records where first character of the city is 'A'.
- 21) Search the records where second character of the city is 'o'.
- 22) Search first 10 records.
- 23) Search first 5 records where city is Mumbai
- 24) Search first 5 records where city is Mumbai or Bangalore. Search the next 5 records skipping the first 5 records where city is Mumbai or Bangalore.
- 25) Sort the records where city is Mumbai or Bangalore by City Name.
- 26) Sort all the records of the table by ID in descending order.
- 27) Insert few records where the city is not entered. Search all the records where the blank.
- 28) Add a date field in the existing table. Search the records where date is in current year.
- 29) Enter few duplicate records where name is duplicate. Select unique records from a table.
- 30) Enter a column amount in the table. Get a total of the complete amount.
- 31) Get total of amount by city.



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- 32) Get avg of amount by city.
- 33) Get maximum amount from all records
- 34) Get minimum amount from all records.
- 35) Fetch the quarter of the date field for all the records.
- 36) Fetch the year of the date field for all the records.
- 37) Fetch the weekday of the date field for all the records.
- 38) For all the records fetch whether it's a new admission or old admission. If the date is of current year it will be a new admission else it will be an old admission.
- 39) Display, id, name and new/old admission. NOTE: Admission field not to be added in the table.
- 40) Add a primary key to the table as id.
- 41) Create two tables one will be employee and another will be city. Add a primary key id in both the tables. Add a foreign key of city in the employee table as city_id.



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- 42) Add a not null constraint for name field in employee.
- 43) Add a new field in Code in the city table. Add a unique constraint on the code field.
- 44) Add another table called Company and a primary key as id. Now add a foreign key of company in city table. Add a unique constraint with combination of company and code fields. Remove the old unique constraint with only code field.
- 45) Check that the date is not before 2010-01-01 in the employee table using check constraint.