1) CREATE DATABASE THA_Abdi;

```
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (14.5)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=# CREATE DATABASE THA_Abdi;
CREATE DATABASE
postgres=#
```

2) CREATE TABLE employee(id SERIAL PRIMARY KEY,first_Name varchar(40), last_Name varchar(50), email varchar(200),department varchar(30),salary bigint,joined_Date Date);

```
tha_abdi=# CREATE TABLE employee(id SERIAL PRIMARY KEY,first_Name varchar(40), last_Name varchar(50), email varchar(200),department varchar(30),salary bigint,joined_Date Da
te);
CREATE TABLE
tha_abdi=# select *from employee;
 id | first_name | last_name | email | department | salary | joined_date
----+------------+-----------+-------+------------+--------+-------------
(0 rows)
```

tha_abdi/postgres@PostgreSQL 14

No limit

Query | Query History

Scratch Pad

```
1  INSERT INTO public.employee(
2   first_name, last_name, email, department, salary, joined_date)
3  Values('Vishal','Rathore','vishalrathore@carepay.com','Finance', 45000,'2018-02-12'),
4  ('Rahul','Sarathe','rahulsarathe@carepay.com','HR', 60000, '2017-04-17'),
5  ('Anisha','Gour','anishagour@carepay.com','Purchase', 30000, '2017-12-20'),
6  ('Saksham','Mahajan','sakshammahajan@carepay.com','Finance', 60000, '2019-11-12'),
7  ('Aakash','Singh','amansingh@carepay.com','Purchase',30000, '2017-09-05'),
8  ('Ankit','Kumar','ankitkumar@carepay.com','Marketing', 50000, '2020-01-14'),
9  ('Riya','Agarwal','riyaagarwal@carepay.com','Finance', 45000, '2018-04-23'),
10 ('Nishit','Sharma','nishitsharma@carepay.com','Purchase', 48000, '2018-10-10'),
11 ('Samay','Raina','samayraina@carepay.com','Marketing', 36000, '2017-08-22'),
12 ('Aman','Singh','amansingh@carepay.com','Finance', 45000, '2017-08-12'),
13 ('Sarthak','Jain','sarthakjain@carepay.com','Purchase', 48000, '2018-04-08'),
14 ('Ashutosh','Patil','ashutoshpatil@carepay.com','PR', 50000, '2019-09-26'),
15 ('Harshit','Kumar','harshitkumar@carepay.com','HR', 40000, '2018-06-05'),
16 ('Ayush','Srivastav','ayushsrivastav@carepay.com','Purchase', 30000, '2018-08-24'),
```

Data output | Messages | Notifications

```
INSERT 0 19

Query returned successfully in 41 msec.
```

3) Write an SQL query to fetch “FIRST_NAME” from employee table using the alias name as <WORKER_NAME>

Select first_Name AS WORKER_NAME from employee;

```
tha_abdi=# Select first_Name AS WORKER_NAME from employee;
 worker_name
-------------
 Vishal
 Rahul
 Anisha
 Saksham
 Aakash
 Ankit
 Riya
 Nishit
 Samay
 Aman
 Sarthak
 Ashutosh
 Harshit
 Ayush
 Shreyansh
 Aryan
 Snehal
 Shubham
 Rakshit
(19 rows)


tha_abdi=#
```

4) Write an SQL query to fetch unique values of DEPARTMENT from employee table.

SELECT DISTINCT(department) FROM employee;

```
tha_abdi=# SELECT DISTINCT(department) FROM employee;
 department
------------
 Purchase
 Marketing
 Finance
 PR
 HR
(5 rows)
```

5) Write an SQL query to show the last 5 record from a table.

SELECT *FROM employee ORDER BY id DESC LIMIT 5;

```
tha_abdi=# SELECT *FROM  employee ORDER BY id DESC LIMIT 5;
 id | first_name | last_name |           email            | department | salary | joined_date
----+------------+-----------+----------------------------+------------+--------+-------------
 19 | Rakshit    | Rao       | rakshitao@carepay.com      | Marketing  |  36000 | 2018-11-30
 18 | Shubham    | Mittal    | shubhammittal@carepay.com  | PR         |  35000 | 2020-02-01
 17 | Snehal     | Reddy     | snehalreddy@carepay.com    | HR         |  40000 | 2019-03-28
 16 | Aryan      | Sharma    | aryansharma@carepay.com    | Finance    |  60000 | 2019-10-31
 15 | Shreyansh  | Deriya    | shreyanshderiya@carepay.com| PR         |  35000 | 2017-07-13
(5 rows)
```

6) Write an SQL query to print the FIRST_NAME from Worker table after removing white spaces from the right side.

SELECT RTRIM(first_Name) as Name FROM employee;

```
tha_abdi=# SELECT RTRIM(first_Name) as Name FROM employee;
   name
-----------
 Vishal
 Rahul
 Anisha
 Saksham
 Aakash
 Ankit
 Riya
 Nishit
 Samay
 Aman
 Sarthak
 Ashutosh
 Harshit
 Ayush
 Shreyansh
 Aryan
 Snehal
 Shubham
 Rakshit
(19 rows)
```

7) Write an SQL query to print the name of employees who have highest salary in each Department

Select first_Name,last_Name, department from employee where salary IN(select Max(salary) from employee group by DISTINCT(department));

```
tha_abdi=# Select first_Name,last_Name, department from employee where salary IN(select Max(salary) from employee group by DISTINCT(department));
 first_name | last_name | department
------------+-----------+------------
 Rahul      | Sarathe   | HR
 Saksham    | Mahajan   | Finance
 Ankit      | Kumar     | Marketing
 Nishit     | Sharma    | Purchase
 Sarthak    | Jain      | Purchase
 Ashutosh   | Patil     | PR
 Aryan      | Sharma    | Finance
(7 rows)
```

8) Write an SQL query that fetches the unique values of DEPARTMENT from Worker table and prints its length

SELECT DISTINCT(department), length(department) FROM employee ORDER BY department ASC;

```
tha_abdi=# SELECT DISTINCT(department), length(department) FROM employee ORDER BY department ASC;
 department | length
------------+--------
 Finance    |      7
 HR         |      2
 Marketing  |      9
 PR         |      2
 Purchase   |      8
(5 rows)
```

9) Write an SQL query to print all Worker details from the Worker table order FIRST_NAME Ascending and DEPARTMENT Descending.

SELECT *FROM employee ORDER BY first_NAME ASC, department DESC;

```
tha_abdi=# SELECT *FROM employee  ORDER BY first_NAME ASC, department DESC;
 id | first_name | last_name |            email             | department | salary | joined_date
----+------------+-----------+------------------------------+------------+--------+-------------
  5 | Aakash     | Singh     | amansingh@carepay.com        | Purchase   |  30000 | 2017-09-05
 10 | Aman       | Singh     | amansingh@carepay.com        | Finance    |  45000 | 2017-08-12
  3 | Anisha     | Gour      | anishagour@carepay.com       | Purchase   |  30000 | 2017-12-20
  6 | Ankit      | Kumar     | ankitkumar@carepay.com       | Marketing  |  50000 | 2020-01-14
 16 | Aryan      | Sharma    | aryansharma@carepay.com      | Finance    |  60000 | 2019-10-31
 12 | Ashutosh   | Patil     | ashutoshpatil@carepay.com    | PR         |  50000 | 2019-09-26
 14 | Ayush      | Srivastav | ayushsrivastav@carepay.com   | Purchase   |  30000 | 2018-08-24
 13 | Harshit    | Kumar     | harshitkumar@carepay.com     | HR         |  40000 | 2018-06-05
  8 | Nishit     | Sharma    | nishitsharma@carepay.com     | Purchase   |  48000 | 2018-10-10
  2 | Rahul      | Sarathe   | rahulsarathe@carepay.com     | HR         |  60000 | 2017-04-17
 19 | Rakshit    | Rao       | rakshitao@carepay.com        | Marketing  |  36000 | 2018-11-30
  7 | Riya       | Agarwal   | riyaagarwal@carepay.com      | Finance    |  45000 | 2018-04-23
  4 | Saksham    | Mahajan   | sakshammahajan@carepay.com   | Finance    |  60000 | 2019-11-12
  9 | Samay      | Raina     | samayraina@carepay.com       | Marketing  |  36000 | 2017-08-22
 11 | Sarthak    | Jain      | sarthakjain@carepay.com      | Purchase   |  48000 | 2018-04-08
 15 | Shreyansh  | Deriya    | shreyanshderiya@carepay.com  | PR         |  35000 | 2017-07-13
 18 | Shubham    | Mittal    | shubhammittal@carepay.com    | PR         |  35000 | 2020-02-01
 17 | Snehal     | Reddy     | snehalreddy@carepay.com      | HR         |  40000 | 2019-03-28
  1 | Vishal     | Rathore   | vishalrathore@carepay.com    | Finance    |  45000 | 2018-02-12
(19 rows)
```

10) Write an SQL query to fetch the names of workers who earn the highest salary.

SELECT CONCAT(first_Name, ' ', last_Name) AS names FROM employee ORDER BY salary DESC;

```
tha_abdi=# SELECT CONCAT(first_Name, ' ', last_Name) AS names  FROM employee ORDER BY salary DESC;
      names
-----------------
 Saksham Mahajan
 Aryan Sharma
 Rahul Sarathe
 Ashutosh Patil
 Ankit Kumar
 Nishit Sharma
 Sarthak Jain
 Vishal Rathore
 Riya Agarwal
 Aman Singh
 Harshit Kumar
 Snehal Reddy
 Samay Raina
 Rakshit Rao
 Shreyansh Deriya
 Shubham Mittal
 Anisha Gour
 Aakash Singh
 Ayush Srivastav
(19 rows)
```

11) Write an SQL query to print details of the Workers whose FIRST_NAME ends with ‘h’ and contains six alphabets.

SELECT first_Name FROM employee where first_Name LIKE'%h' AND length(first_Name)>6;

```
tha_abdi=# SELECT first_Name FROM employee where first_Name LIKE'%h' AND length(first_Name)>6;
 first_name
------------
 Ashutosh
 Shreyansh
(2 rows)
```