## IREMBERE Olivier ID:28392 DBMS ASSIGNMENT

```
SQL Shell (psql)
    Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
    psql (17.5)
WARNING: Console code page (857) differs from Windows code page (1254)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.
    postgres=# \c assignment
You are now connected to database "assignment" as user "postgres".
assignment=# # create table employee (employee_id int primary key,first_name varchar(50),last_name varchar(50),email varchar(100),hire_date date,sal
ary decimal(10,2),department_id int);
ERROR: syntax error at or near "#"
LINE 1: # create table employee (employee_id int primary key,first_n...
 LINE 1: # create table employee (employee_id int primary key,first_n...

assignment=# create table employee (employee_id int primary key,first_name varchar(50),last_name varchar(50),email varchar(100),hire_date date,salar y decimal(10,2),department_id int);

CREATE TABLE assignment=# create table departments (department_id int primary key,department_name varchar(100));

CREATE TABLE assignment=# create table projects (project_id int primary key,project_name varchar(100),start_date date,end_date date);

CREATE TABLE assignment=# create table employee_projects (employee_id int,project_id int,assigned_date date,primary key(employee_id,project_id));

CREATE TABLE assignment=# (1, "Human Resources"),
assignment=# (1, "Human Resources"),
assignment=# (2, "Finance"),
assignment=# (3, "Information Technology"),
assignment=# (4, "Arrketing"),
assignment=# (5, 'Legal'),
assignment=# (6, 'Operations'),
assignment=# (6, 'Sales'),
assignment=# (7, 'Customer Service'),
assignment=# (8, 'Sales'),
assignment=# (10, 'Procurement');
INSERT O 10
assignment=# INSERT INTO employee (employee_id, first_name, last_name, email, hire_date, salary,
assignment=# INSERT INTO employee (employee_id, first_name, last_name, email, hire_date, salary,
assignment=# (# department_id) VALUES
      SQL Shell (psgl)
                                                                                                                                  × + ×
   assignment=# INSERT INTO employee (employee_id, first_name, last_name, email, hire_date, salary,
assignment=# INSERT INTO employee (employee_id, first_name, last_name, email, hire_date, salary assignment(# department_id) VALUES assignment-# (101, 'Alice', 'Johnson', 'alice.johnson@company.com', '2015-03-15', 4500.00, 1), assignment-# (102, 'Bob', 'Smith', 'bob.smith@company.com', '2018-06-23', 5200.00, 3), assignment-# (103, 'Carol', 'Adams', 'carol.adams@company.com', '2012-09-10', 6700.00, 2), assignment-# (104, 'David', 'Lee', 'david.lee@company.com', '2020-01-05', 3800.00, 4), assignment-# (105, 'Eve', 'Martins', 'eve.martins@company.com', '2019-12-11', 4000.00, 3), assignment-# (106, 'Frank', 'Green', 'frank.green@company.com', '2017-07-08', 6000.00, 8), assignment-# (107, 'Grace', 'Brown', 'grace.brown@company.com', '2014-11-02', 4900.00, 5), assignment-# (108, 'Hank', 'Wilson', 'hank.wilson@company.com', '2013-02-17', 3100.00, 6), assignment-# (109, 'Ivy', 'Clark', 'ivy.clark@company.com', '2021-08-30', 2700.00, 9), assignment-# (110, 'Jake', 'White', 'jake.white@company.com', '2022-05-19', 3600.00, 7); INSERT 0 10
INSERT 0 10

assignment=# INSERT INTO projects (project_id, project_name, start_date, end_date) VALUES
assignment=# (201, 'HR Revamp', '2023-01-01', '2023-12-31'),
assignment-# (202, 'Finance Automation', '2022-05-15', '2023-04-30'),
assignment-# (203, 'IT Infrastructure Upgrade', '2024-01-01', NULL),
assignment-# (204, 'Marketing Blitz 2025', '2025-02-01', '2025-06-30'),
assignment-# (205, 'Legal Compliance', '2023-07-10', '2024-01-10'),
assignment-# (206, 'Customer Portal', '2021-11-01', '2022-10-31'),
assignment-# (207, 'Sales Booster', '2022-04-01', '2023-03-31'),
assignment-# (208, 'R&D Pilot', '2025-01-01', NULL),
assignment-# (209, 'Procurement Tracker', '2024-03-15', '2024-11-15'),
assignment-# (210, 'Operations Streamline', '2022-09-01', '2023-09-01');
INSERT 0 10
   INSERT 0 10
INSERT 0 10
assignment=# INSERT INTO employee_projects (employee_id, project_id, assigned_date) VALUES
assignment+# (101, 201, '2023-01-10'),
assignment-# (102, 203, '2024-01-05'),
assignment-# (103, 202, '2022-05-20'),
assignment-# (104, 204, '2025-02-10'),
assignment-# (105, 203, '2024-01-07'),
assignment-# (106, 207, '2022-04-15'),
assignment-# (107, 205, '2023-07-15'),
assignment-# (108, 210, '2022-09-10'),
assignment-# (109, 208, '2025-01-10'),
assignment-# (109, 208, '2025-01-10'),
assignment-# (109, 208, '2025-01-10'),
assignment-# (110, 206, '2021-11-05');
INSERT 0 10
   INSERT 0 10
```

```
assignments select first_name || '' || last_name as full_name from employee;
full_name
```

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assignmentat select EERCACCemail, '@company.com', '@org.com') as updated_email from employee;

updated_email

alice_johnsom@org.com
bob.smith@org.com
david_leeporg.com
eve_amartins@org.com
grace_broundergr.com
grace_broundergr.com
grace_broundergr.com
div_rclaneMerg.com
div_rclaneMerg.c
```

```
SQL Shell (psql)
    assignment=# select POSITION('@' IN email) as at_position from employee; at_position
                                                                    14
10
12
10
12
12
12
12
      (10 rows)
Alice Johnson
Carol Adams
Eve Martins
Grace Brown
Ivy Clark
Bob Smith
David Lee
Frank Green
Hank Wilson
Jake White
(10 rows)
       SQL Shell (psql)
    assignment=# select UPPER(project_name) as upper_project_name from projects;
upper_project_name
   HR REVAMP

HR REVAMP

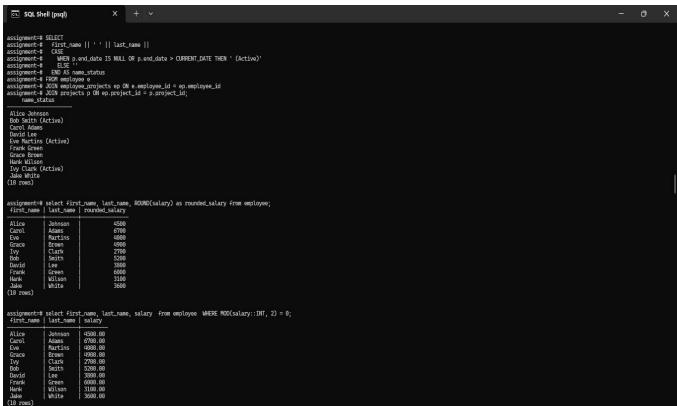
HR REVAMP

HI WAS A THE 
      assignment=# select REPLACE(project_name, '-', '') as clean_project_name from projects; clean_project_name
```

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EX SQLSHellgraph X + V - O X

assignment=8 select email, LENGTH(email) as email_length from employee;
email_length

alics_jnhnendcompany.com | carel, adams@company.com | 23
grace_broundcompany.com | 23
grace_broundcompany.com | 23
grace_broundcompany.com | 23
grace_broundcompany.com | 23
ladv_dil_lengtompany.com | 21
david_lengtompany.com | 22
ladv_dil_lengtompany.com | 23
hank.milson@company.com | 22
jalake.milstompany.com | 22
jalake.milstompany.com | 22
jalake.milstompany.com | 22
ladv_dil_lengtompany.com | 22
ladv_dil_lengtompany.com | 22
ladv_dil_lengtompany.com | 23
hank.milson@company.com | 22
jalake.milstompany.com | 25
ladv_dil_lengtompany.com | 26
ladv_dil_lengtompany.com | 27
ladv_dil_lengtompany.com | 28
ladv_dil_lengtompany.com | 29
jalake.milstompany.com | 20
jalake.milstompany.company.com | 20
jalake.milstompany.company.com | 20
jalake.milstom
```



```
assignment# select AGE(end_date,start_date) AS duration FROM projects;

duration

11 nons 30 days
11 nons 30 days
11 nons 20 days
6 nons
11 nons 30 days
11 nons 4 days
11 nons 30 days
11 nons 30 days
11 nons 30 days
11 non
```

