Server [localhost]:

Database [postgres]:

Port [5432]:

Username [postgres]:

Password for user postgres:

psql (14.0)

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 crm;

CREATE DATABASE

postgres=# \c crm

You are now connected to database "crm" as user "postgres".

crm=# CREATE TABLE customer_info(id int NOT NULL PRIMARY KEY, first_name varchar(30), last_name varchar(30), phone_number varchar(12), national_code varchar(10), economy_code varchar(20), address varchar(100));

CREATE TABLE

crm=# CREATE TABLE employee_info(id int NOT NULL PRIMARY KEY, first_name varchar(30), last_name varchar(30), national_code varchar(10), address varchar(100), last_educational_certificate varchar(50), image varchar(100));

CREATE TABLE

crm=# CREATE TABLE role(id int NOT NULL PRIMARY KEY, name varchar(30), description varchar(100));

CREATE TABLE

crm=# CREATE TABLE permission(id int NOT NULL PRIMARY KEY, name varchar(30), description varchar(100));

CREATE TABLE

crm=# CREATE TABLE user(id int NOT NULL PRIMARY KEY, user_name varchar(30), password varchar(50));

ERROR: syntax error at or near "user"

LINE 1: CREATE TABLE user(id int NOT NULL PRIMARY KEY, user_name var...

          ^

crm=# CREATE TABLE users(id int NOT NULL PRIMARY KEY, user_name varchar(30), password varchar(50));

CREATE TABLE

crm=# CREATE TABLE ticket(id int NOT NULL PRIMARY KEY, title varchar(50), description varchar(300), date_time varchar(50), type int);

CREATE TABLE

crm=# CREATE TABLE response(id int NOT NULL PRIMARY KEY, title varchar(50), description varchar(300), date_time varchar(50));

```
CREATE TABLE
crm=# ALTER TABLE response DROP COLUMN title;
ALTER TABLE
crm=# \d response
             Table "public.response"
   Column    |         Type          | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 id          | integer               |           | not null |
 description | character varying(300)|           |          |
 date_time   | character varying(50) |           |          |
Indexes:
    "response_pkey" PRIMARY KEY, btree (id)


crm=# \d
          List of relations
 Schema |     Name      | Type  |  Owner
--------+---------------+-------+----------
 public | customer_info | table | postgres
 public | employee_info | table | postgres
 public | permission    | table | postgres
 public | response      | table | postgres
 public | role          | table | postgres
 public | ticket        | table | postgres
 public | users         | table | postgres
(7 rows)


crm=# \d role
              Table "public.role"
   Column    |         Type          | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 id          | integer               |           | not null |
 name        | character varying(30) |           |          |
```

```
 description | character varying(100) |          |         |
Indexes:
    "role_pkey" PRIMARY KEY, btree (id)



crm=# ALTER TABLE users ADD COLUMN role_id INT NOT NULL REFERENCES role(ID);
ALTER TABLE
crm=# ALTER TABLE users ADD COLUMN customer_id INT NOT NULL REFERENCES customer_info(ID);
ALTER TABLE
crm=# ALTER TABLE users ADD COLUMN employee_id INT NOT NULL REFERENCES employee_info(ID);
ALTER TABLE
crm=# ALTER TABLE ticket ADD COLUMN user_id INT NOT NULL REFERENCES users(ID);
ALTER TABLE
crm=# ALTER TABLE ticket ADD COLUMN status INT NOT NULL;
ALTER TABLE
crm=# ALTER TABLE response ADD COLUMN ticket_id INT NOT NULL REFERENCES ticket(ID);
ALTER TABLE
crm=# ALTER TABLE response ADD COLUMN costumer_id INT NOT NULL REFERENCES customer_info(ID));
crm-# ALTER TABLE response ADD COLUMN costumer_id INT NOT NULL REFERENCES customer_info(ID));
ERROR:  syntax error at or near "ALTER"
LINE 2: ALTER TABLE response ADD COLUMN costumer_id INT NOT NULL REF...
        ^
crm=# ALTER TABLE response ADD COLUMN costumer_id INT NOT NULL REFERENCES customer_info(ID);
ALTER TABLE
crm=# ALTER TABLE response ADD COLUMN user_id INT NOT NULL REFERENCES users(ID);
ALTER TABLE
crm=# CREATE TABLE role_permission(id INT NOT NULL PRIMARY KEY);
CREATE TABLE
crm=# ALTER TABLE role_permission ADD COLUMN role_id INT NOT NULL REFERENCES role(ID);
ALTER TABLE
crm=# ALTER TABLE role_permission ADD COLUMN permission_id INT NOT NULL REFERENCES permission(ID);
ALTER TABLE
crm=# \d
        List of relations
```

```
 Schema |     Name       | Type  | Owner
--------+----------------+-------+----------
 public | customer_info  | table | postgres
 public | employee_info  | table | postgres
 public | permission     | table | postgres
 public | response       | table | postgres
 public | role           | table | postgres
 public | role_permission | table | postgres
 public | ticket         | table | postgres
 public | users          | table | postgres
(8 rows)


crm=# \d customer_info
            Table "public.customer_info"
    Column     |        Type        | Collation | Nullable | Default
---------------+--------------------+-----------+----------+---------
 id            | integer            |           | not null |
 first_name    | character varying(30) |        |          |
 last_name     | character varying(30) |        |          |
 phone_number  | character varying(12) |        |          |
 national_code | character varying(10) |        |          |
 economy_code  | character varying(20) |        |          |
 address       | character varying(100) |       |          |
Indexes:
    "customer_info_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "response" CONSTRAINT "response_costumer_id_fkey" FOREIGN KEY (costumer_id) REFERENCES
customer_info(id)
    TABLE "users" CONSTRAINT "users_customer_id_fkey" FOREIGN KEY (customer_id) REFERENCES customer_info(id)


crm=# \d employee_info
               Table "public.employee_info"
```

```
        Column          |         Type          | Collation | Nullable | Default
----------------------------+-----------------------+-----------+----------+---------
 id                         | integer               |           | not null |
 first_name                 | character varying(30) |           |          |
 last_name                  | character varying(30) |           |          |
 national_code              | character varying(10) |           |          |
 address                    | character varying(100)|           |          |
 last_educational_certificate | character varying(50) |        |          |
 image                      | character varying(100)|           |          |
Indexes:
    "employee_info_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "users" CONSTRAINT "users_employee_id_fkey" FOREIGN KEY (employee_id) REFERENCES
employee_info(id)




crm=# \d response
             Table "public.response"
  Column     |         Type          | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 id          | integer               |           | not null |
 description | character varying(300)|           |          |
 date_time   | character varying(50) |           |          |
 ticket_id   | integer               |           | not null |
 costumer_id | integer               |           | not null |
 user_id     | integer               |           | not null |
Indexes:
    "response_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
    "response_costumer_id_fkey" FOREIGN KEY (costumer_id) REFERENCES customer_info(id)
    "response_ticket_id_fkey" FOREIGN KEY (ticket_id) REFERENCES ticket(id)
    "response_user_id_fkey" FOREIGN KEY (user_id) REFERENCES users(id)
```

```
crm=# \d ticket
                Table "public.ticket"
   Column    |          Type          | Collation | Nullable | Default
-------------+------------------------+-----------+----------+---------
 id          | integer                |           | not null |
 title       | character varying(50)  |           |          |
 description | character varying(300) |           |          |
 date_time   | character varying(50)  |           |          |
 type        | integer                |           |          |
 user_id     | integer                |           | not null |
 status      | integer                |           | not null |
Indexes:
    "ticket_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
    "ticket_user_id_fkey" FOREIGN KEY (user_id) REFERENCES users(id)
Referenced by:
   TABLE "response" CONSTRAINT "response_ticket_id_fkey" FOREIGN KEY (ticket_id) REFERENCES ticket(id)



crm=# \d users
                Table "public.users"
   Column    |          Type         | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 id          | integer               |           | not null |
 user_name   | character varying(30) |           |          |
 password    | character varying(50) |           |          |
 role_id     | integer               |           | not null |
 customer_id | integer               |           | not null |
 employee_id | integer               |           | not null |
Indexes:
    "users_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
    "users_customer_id_fkey" FOREIGN KEY (customer_id) REFERENCES customer_info(id)
    "users_employee_id_fkey" FOREIGN KEY (employee_id) REFERENCES employee_info(id)
```

```
    "users_role_id_fkey" FOREIGN KEY (role_id) REFERENCES role(id)
Referenced by:
    TABLE "response" CONSTRAINT "response_user_id_fkey" FOREIGN KEY (user_id) REFERENCES users(id)
    TABLE "ticket" CONSTRAINT "ticket_user_id_fkey" FOREIGN KEY (user_id) REFERENCES users(id)


crm=# \d role
                 Table "public.role"
   Column    |         Type          | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 id          | integer               |           | not null |
 name        | character varying(30) |           |          |
 description | character varying(100)|           |          |
Indexes:
    "role_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "role_permission" CONSTRAINT "role_permission_role_id_fkey" FOREIGN KEY (role_id) REFERENCES role(id)
    TABLE "users" CONSTRAINT "users_role_id_fkey" FOREIGN KEY (role_id) REFERENCES role(id)


crm=# \d permission
                 Table "public.permission"
   Column    |         Type          | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 id          | integer               |           | not null |
 name        | character varying(30) |           |          |
 description | character varying(100)|           |          |
Indexes:
    "permission_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "role_permission" CONSTRAINT "role_permission_permission_id_fkey" FOREIGN KEY (permission_id)
REFERENCES permission(id)
```

```
crm=# \d role_permission
        Table "public.role_permission"
   Column    |  Type   | Collation | Nullable | Default
---------------+---------+-----------+----------+---------
 id           | integer |           | not null |
 role_id      | integer |           | not null |
 permission_id | integer |          | not null |
Indexes:
    "role_permission_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
    "role_permission_permission_id_fkey" FOREIGN KEY (permission_id) REFERENCES permission(id)
    "role_permission_role_id_fkey" FOREIGN KEY (role_id) REFERENCES role(id)


crm=# \d
         List of relations
 Schema |      Name       | Type  |  Owner
--------+-----------------+-------+----------
 public | customer_info   | table | postgres
 public | employee_info   | table | postgres
 public | permission      | table | postgres
 public | response        | table | postgres
 public | role            | table | postgres
 public | role_permission | table | postgres
 public | ticket          | table | postgres
 public | users           | table | postgres
(8 rows)


crm=#
```