1. Устанавливаем POSTGRESQL с помощью команды sudo apt install postgresql

```
Creating config file /etc/postgresql-common/createcluster.conf with new version
Building PostgreSQL dictionaries from installed myspell/hunspell packages...
Removing obsolete dictionary files:
Created symlink /etc/systemd/system/multi-user.target.wants/postgresql.service → /lib/systemd/system/postgresql.service.
Setting up libxslt1.1:amd64 (1.1.34-4ubuntu0.20.04.1) ...
Setting up postgresql-12 (12.14-0ubuntu0.20.04.1) ...
Creating new PostgreSQL cluster 12/main ...
/usr/lib/postgresql/12/bin/initdb -D /var/lib/postgresql/12/main --auth-local peer --auth-host md5
The files belonging to this database system will be owned by user "postgres".
This user must also own the server process.

The database cluster will be initialized with locale "en_US.UTF-8".
The default database encoding has accordingly been set to "UTF8".
The default text search configuration will be set to "english".

Data page checksums are disabled.

fixing permissions on existing directory /var/lib/postgresql/12/main ... ok
creating subdirectories ... ok
selecting dynamic shared memory implementation ... posix
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
selecting default time zone ... Europe/Moscow
creating configuration files ... ok
running bootstrap script ... ok
performing post-bootstrap initialization ... ok
syncing data to disk ... ok

Success. You can now start the database server using:

    pg_ctlcluster 12 main start

Ver Cluster Port Status Owner    Data directory              Log file
12  main    5432 down   postgres /var/lib/postgresql/12/main /var/log/postgresql/postgresql-12-main.log
update-alternatives: using /usr/share/postgresql/12/man/man1/postmaster.1.gz to provide /usr/share/man/man1/postmaster.1.gz (po
tmaster.1.gz) in auto mode
Setting up postgresql (12+214ubuntu0.1) ...
Processing triggers for systemd (245.4-4ubuntu3.20) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
root@80-78-240-157:~# psql
psql: error: FATAL:  role "root" does not exist
root@80-78-240-157:~# sudo -i -u postgres
postgres@80-78-240-157:~$ psql
psql (12.14 (Ubuntu 12.14-0ubuntu0.20.04.1))
```

2. Перейдём к учётной записи postgres - sudo -i -u postgres
3. Войдём в командную строку с помощью команды psql
4. Создадим БД “Ремонтная мастерская”

```
postgres=# CREATE DATABASE remont_master;
CREATE DATABASE
postgres=# \c remont_master
You are now connected to database "remont_master" as user "postgres".
remont_master=#
```

5. Создадим таблицу “Виды работ”

```
You are now connected to database "remont_master" as user "postgres".
remont_master=# CREATE TABLE vidy_rabot (
remont_master(# id SERIAL PRIMARY KEY,
remont_master(# naimenovanie VARCHAR(30),
remont_master(# tsena DECIMAL(10,2)
remont_master(# );
CREATE TABLE
```

6. Создадим таблицу “Исполнители”

```
remont_master=# CREATE TABLE ispolniteli (
remont_master(# id SERIAL PRIMARY KEY,
remont_master(# imya VARCHAR(30),
remont_master(# familiya VARCHAR(30),
remont_master(# dolzhnost VARCHAR(30),
remont_master(# stavka_v_chas DECIMAL(10,2)
remont_master(# );
CREATE TABLE
```

7. Создадим таблицу “Заказчики”
8.

```
remont_master=# CREATE TABLE zakazchiki (
id SERIAL PRIMARY KEY,
imya VARCHAR(30),
familiya VARCHAR(30),
adres VARCHAR(50)
);
CREATE TABLE
```

9.
10. Создадим сводную таблицу “Заказы на ремонт”

```
remont_master=# CREATE TABLE zakazy_na_remont (
remont_master(# id SERIAL PRIMARY KEY,
remont_master(# data DATE,
remont_master(# stoimost DECIMAL(10,2),
remont_master(# id_vida_rabot INTEGER REFERENCES vidy_rabot(id),
remont_master(# id_ispolnitelya INTEGER REFERENCES ispolniteli,
remont_master(# id_zakazchika INTEGER REFERENCES zakazchiki
remont_master(# );
CREATE TABLE
```

```
remont_master=# \dt
              List of relations
 Schema |       Name       | Type  |  Owner
--------+------------------+-------+----------
 public | ispolniteli      | table | postgres
 public | vidy_rabot       | table | postgres
 public | zakazchiki       | table | postgres
 public | zakazy_na_remont | table | postgres
(4 rows)
```

11. База данных создана

СХЕМА