TUGAS MYSQL

Nama: Ardyan Satya Perkasa

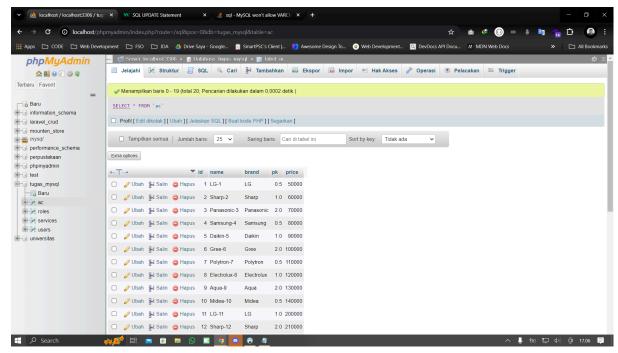
1. Buatlah tabel nya menggunakan query sql!

```
-- Creating Tables --
CREATE TABLE roles (
    id INT PRIMARY KEY AUTO INCREMENT,
    name VARCHAR(255)
);
CREATE TABLE users (
    id INT AUTO INCREMENT,
   name VARCHAR(255),
    email VARCHAR(255),
   password VARCHAR(255),
   gender CHAR,
   photo VARCHAR (255),
   address VARCHAR (255),
    role INT,
    PRIMARY KEY (id),
   CONSTRAINT FK RoleUser FOREIGN KEY (role) REFERENCES roles(id)
);
CREATE TABLE ac (
   id INT PRIMARY KEY AUTO INCREMENT,
   name VARCHAR (255),
   brand VARCHAR (255),
   pk FLOAT(4, 1),
   price INT
);
CREATE TABLE services (
    id INT AUTO INCREMENT,
    technician id INT,
    client id INT,
    ac id INT,
    date DATE,
    status ENUM('unpaid', 'paid', 'on repair', 'finish'),
    PRIMARY KEY (id),
   CONSTRAINT FK ClientService FOREIGN KEY (client id) REFERENCES
users(id),
    CONSTRAINT FK TechnicianService FOREIGN KEY (technician id)
REFERENCES users (id),
    CONSTRAINT FK AcService FOREIGN KEY (ac id) REFERENCES ac(id)
);
```

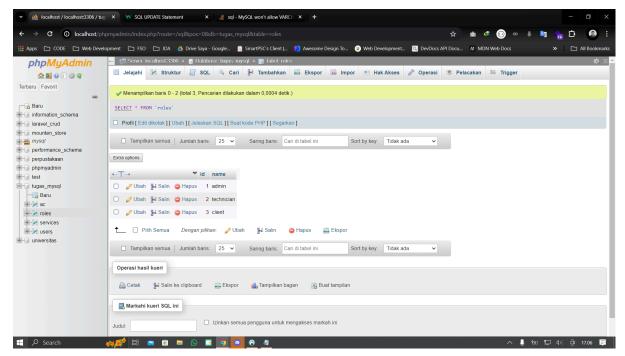
```
-- Inserting Data -
INSERT INTO roles
      (name)
VALUES
      ('admin'),
      ('technician'),
      ('client');
INSERT INTO users
     (name, email, password, gender, photo, address, role)
VALUES
      ('Fulan', 'fulan@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 1),
    ('Fulanah', 'fulanah@gmail.com', '*****', 'P',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 2),
    ('Ardi', 'ardi@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 2),
    ('Samsudin', 'samsudin@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 2),
    ('Eko', 'eko@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 2),
    ('Sugeng', 'sugeng@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Alif', 'alif@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Siti', 'siti@gmail.com', '*****', 'P',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Juminten', 'juminten@gmail.com', '*****', 'P',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Paijo', 'paijo@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Saifuddin', 'saifuddin@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Daffa', 'daffa@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Akbar', 'akbar@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Rafli', 'rafli@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3),
    ('Rini', 'rini@gmail.com', '*****', 'L',
'https://lorem.ipsum/dolor.png', 'Jl. Cisitu Indah VI no 6', 3);
INSERT INTO ac
      (name, brand, pk, price)
VALUES
      ('LG-1','LG',0.5,50000),
      ('Sharp-2', 'Sharp', 1, 60000),
      ('Panasonic-3', 'Panasonic', 2, 70000),
      ('Samsung-4', 'Samsung', 0.5, 80000),
      ('Daikin-5', 'Daikin', 1, 90000),
```

```
('Gree-6', 'Gree', 2,100000),
      ('Polytron-7', 'Polytron', 0.5, 110000),
      ('Electrolux-8', 'Electrolux', 1, 120000),
      ('Aqua-9', 'Aqua', 2, 130000),
      ('Midea-10', 'Midea', 0.5, 140000),
      ('LG-11', 'LG', 1, 200000),
      ('Sharp-12', 'Sharp', 2, 210000),
      ('Panasonic-13', 'Panasonic', 0.5, 220000),
      ('Samsung-14', 'Samsung', 1, 230000),
      ('Daikin-15', 'Daikin', 2, 240000),
      ('Gree-16', 'Gree', 0.5, 250000),
      ('Polytron-17', 'Polytron', 1, 260000),
      ('Electrolux-18', 'Electrolux', 2, 270000),
      ('Aqua-19', 'Aqua', 0.5, 280000),
      ('Midea-20', 'Midea', 1, 290000);
INSERT INTO services
      (id, technician id, client id, ac id, date, status)
VALUES
      ('1', '2', '6', '1', '2020-06-01', 'finish'),
      ('2', '3', '7', '2', '2020-05-01', 'finish'),
      ('3', '4', '8', '3', '2020-06-02', 'finish'),
      ('4', '5', '9', '4', '2021-03-03', 'finish'),
      ('5', '2', '6', '5', '2021-12-05', 'finish'),
      ('6', '3', '7', '6', '2021-12-25', 'finish'),
      ('7', '4', '10', '7', '2022-06-01', 'finish'),
      ('8', '5', '11', '8', '2022-02-02', 'finish'),
      ('9', '2', '6', '9', '2022-04-04', 'finish'),
      ('10', '3', '7', '10', '2023-05-05', 'on repair'),
      ('11', '4', '12', '11', '2023-06-06', 'on repair'),
      ('12', '5', '13', '12', '2023-07-07', 'on repair'),
      ('13', '2', '6', '13', '2023-08-08', 'paid'),
      ('14', '3', '7', '14', '2023-09-09', 'paid'),
      ('15', '4', '14', '15', '2023-10-10', 'unpaid');
```

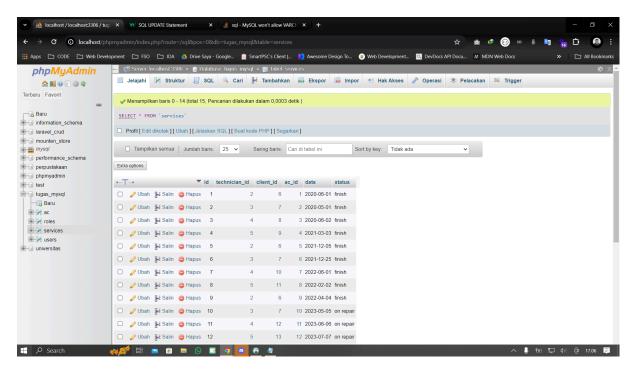
-- Screenshot --



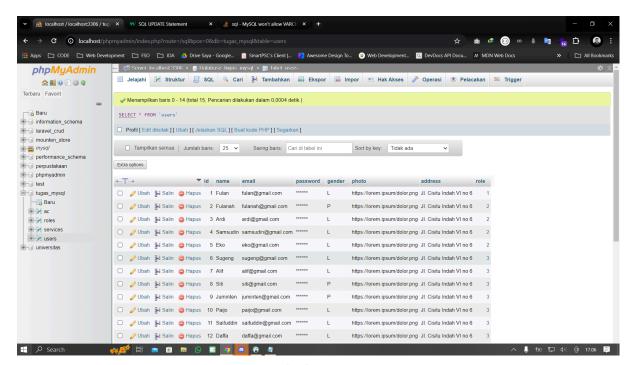
Tabel AC



Tabel Roles



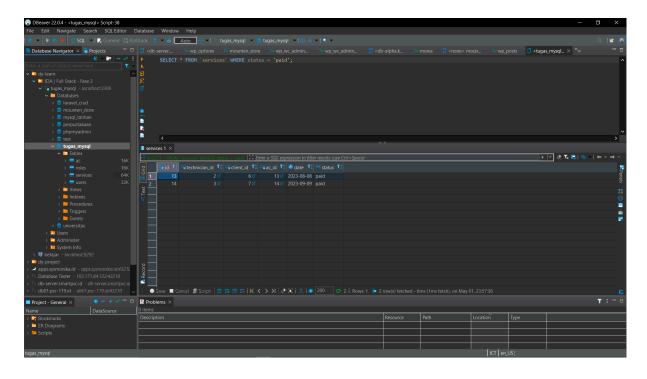
Tabel Services



Tabel Users

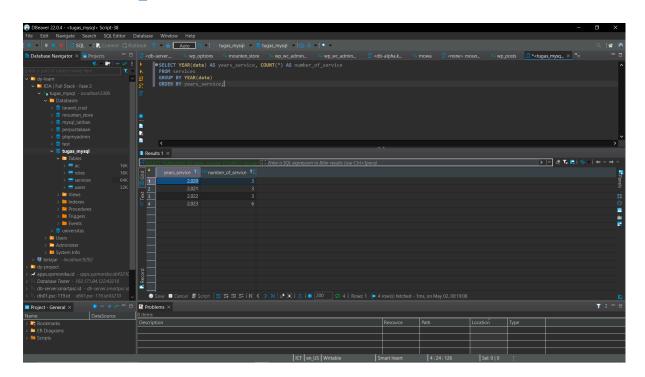
2. Tampilkan jumlah perbaikan yang sudah dibayar!

SELECT * FROM `services` WHERE status = 'paid';



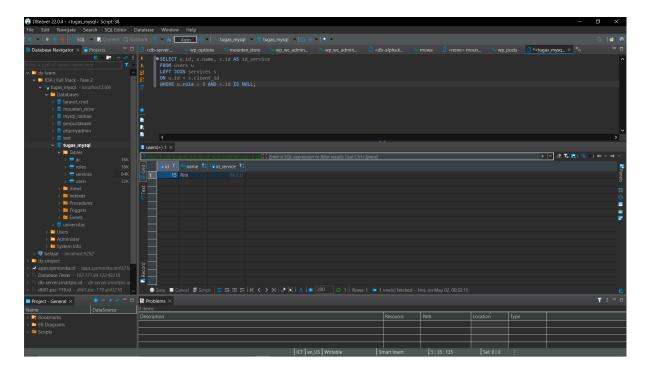
3. Tampilkan tahun beserta jumlah perbaikan yang dilakukan pada tahun tersebut!

```
SELECT YEAR(date) AS years_service, COUNT(*) AS number_of_service
FROM services
GROUP BY YEAR(date)
ORDER BY years service;
```



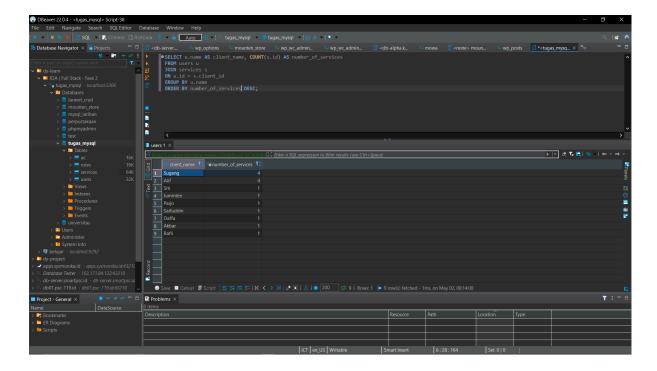
4. Tampilkan data client yang tidak pernah melakukan perbaikan ac!

```
SELECT u.id, u.name, s.id AS id_service
FROM users u
LEFT JOIN services s
ON u.id = s.client_id
WHERE u.role = 3 AND s.id IS NULL;
```



5. Tampilkan data client beserta jumlah perbaikan yang dilakukan, urutkan berdasarkan perbaikan terbanyak!

```
SELECT u.name AS client_name, COUNT(s.id) AS number_of_services
FROM users u
JOIN services s ON u.id = s.client_id
GROUP BY u.name
ORDER BY number_of_services DESC;
```



6. Tampilkan data technician beserta jumlah uang yang diperoleh, urutkan berdasarkan perolehan terbanyak!

```
SELECT s.technician_id, u.name AS technician_name, SUM(ac.price) AS
income_amount FROM users u

JOIN services s
   ON u.id = s.technician_id

JOIN ac
   ON s.ac_id = ac.id

WHERE s.status <> 'unpaid'
GROUP BY u.name
ORDER BY income amount DESC;
```

