LAPORAN AKHIR PRAKTIKUM

Mata praktikum : SISTEM BASIS DATA 2

Kelas : 3IA11

Praktikum ke- : 4

Tanggal : 10/05/2025

Materi : DATABASE SYSTEM TOOLS/ DATABASE MANAGEMENT SYSTEM

Npm : 51422161

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Ketua asisten : Muhammad Yasin

Jumlah lembar : 11



LABORATORIUM TEKNIK INFORMATIKA UNIVERSITAS GUNADARMA

1. table users

```
-- Baru buat tabel
                          CREATE TABLE Users (
                                id INT PRIMARY KEY,
                                name CHAR(100),
                                email CHAR(100),
                                phone INT,
                                address TEXT,
                                role VARCHAR(10),
                                created_at DATE
                           );
                           -- table cars
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✓ SQL

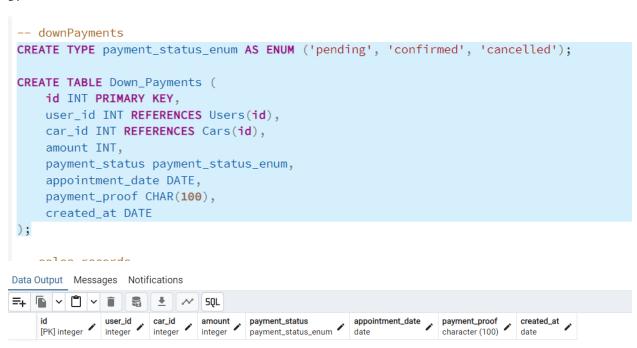
                                                                        created_at
                                       phone
              character (100)
                          character (100)
                                       integer
    [PK] integer
                                                       character varying (10)
                                               text
                                                                        date
```

2. table cars

```
uery Query History
              -- table cars
              CREATE TYPE transmission_type AS ENUM ('manual', 'automatic');
              CREATE TYPE sale_type_enum AS ENUM ('user', 'showroom');
              CREATE TYPE status_car_enum AS ENUM ('available', 'sold', 'pending_check', 'under_review');
3 v CREATE TABLE Cars (
                              id INT PRIMARY KEY,
                              user_id INT REFERENCES Users(id),
                              brand CHAR(100),
                              model CHAR(100),
                              year INT,
                              price INT,
                              transmission transmission_type,
                              service_history CHAR(100),
                              fuel_type TEXT,
                              mileage CHAR(100),
                              description TEXT,
                              sale_type sale_type_enum,
                              status status_car_enum,
                              created_at DATE
             );
          -- downDaymente
     id user_id brand model year price integer integer character (100) character (100) price integer integer character (100) character (100) price integer integer character (100) price intege
```

```
status created_at date
```

3.



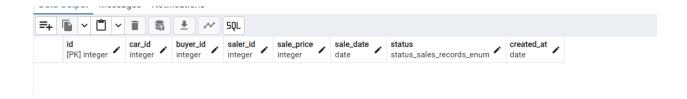
4. sales records

```
-- sales_records

CREATE TYPE status_sales_records_enum AS ENUM ('pending', 'confirmed', 'cancelled');

CREATE TABLE sales_records (
    id INT PRIMARY KEY,
    car_id INT REFERENCES Cars(id),
    buyer_id INT REFERENCES Users(id),
    saler_id INT REFERENCES Users(id),
    sale_price INT,
    sale_date DATE,
    status status_sales_records_enum,
    created_at DATE
);
```

Outnut Messages Notifications



5. reviews

```
Select A TIVM Sales_Fections
 -- reviews
 CREATE TYPE status_review_enum AS ENUM ('pending', 'approved', 'rejected');
- CREATE TABLE reviews (
     id INT PRIMARY KEY,
     car_id INT REFERENCES Cars(id),
     user_id INT REFERENCES Users(id),
     rating INT CHECK (rating BETWEEN 1 AND 5),
     comment TEXT,
     photo_review CHAR(255),
     status status_review_enum,
     created_at DATE
 select * from reviews
Output Messages Notifications
+ ~
                              SQL
                                      comment
                                                              status_review_enum created_at date
                                                              status
            car_id
                     user_id
                             rating
                                                photo_review
                    integer
                             integer
                                                character (255)
 [PK] integer integer
                                      text
```

6. offers



```
7. full code
-- TABEL USERS
CREATE TABLE Users (
 id INT PRIMARY KEY,
  name CHAR(100),
 email CHAR(100),
  phone INT,
 address TEXT,
 role VARCHAR(10),
 created at DATE
);
-- table cars
CREATE TYPE transmission type AS ENUM ('manual', 'automatic');
CREATE TYPE sale_type_enum AS ENUM ('user', 'showroom');
CREATE TYPE status_car_enum AS ENUM ('available', 'sold', 'pending_check', 'under_review');
CREATE TABLE Cars (
 id INT PRIMARY KEY,
 user id INT REFERENCES Users(id),
 brand CHAR(100),
  model CHAR(100),
 year INT,
  price INT,
 transmission transmission_type,
 service history CHAR(100),
```

```
fuel_type TEXT,
  mileage CHAR(100),
  description TEXT,
  sale_type sale_type_enum,
 status status_car_enum,
 created at DATE
);
-- downPayments
CREATE TYPE payment_status_enum AS ENUM ('pending', 'confirmed', 'cancelled');
CREATE TABLE Down_Payments (
 id INT PRIMARY KEY,
 user_id INT REFERENCES Users(id),
  car id INT REFERENCES Cars(id),
  amount INT,
  payment_status payment_status_enum,
 appointment_date DATE,
  payment proof CHAR(100),
 created_at DATE
-- sales records
CREATE TYPE status sales records enum AS ENUM ('pending', 'confirmed', 'cancelled');
CREATE TABLE sales_records (
 id INT PRIMARY KEY,
```

```
car_id INT REFERENCES Cars(id),
  buyer_id INT REFERENCES Users(id),
  saler id INT REFERENCES Users(id),
  sale price INT,
 sale_date DATE,
 status status sales records enum,
 created at DATE
select * from sales records
-- reviews
CREATE TYPE status_review_enum AS ENUM ('pending', 'approved', 'rejected');
CREATE TABLE reviews (
 id INT PRIMARY KEY,
 car_id INT REFERENCES Cars(id),
 user_id INT REFERENCES Users(id),
  rating INT CHECK (rating BETWEEN 1 AND 5),
  comment TEXT,
  photo_review CHAR(255),
 status status_review_enum,
 created at DATE
select * from reviews
```

```
-- offers

CREATE TABLE offers (

id INT PRIMARY KEY,

user_id INT REFERENCES Users(id),

brand CHAR(100),

mileage CHAR(50),

status status_review_enum,

transmission transmission_type,

offered_price INT,

year INT,

model CHAR(100),

condition TEXT,

inspection_date DATE,

created_at DATE

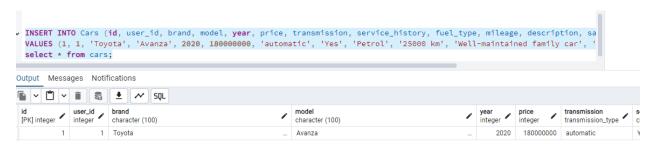
);

select * from offers
```

8. insert data users



9. insert data cars



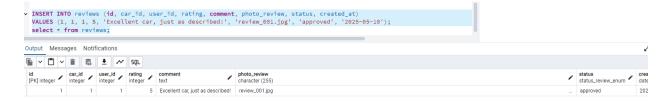
10. insert data down payments



11. insert data sales record



12. reviews



13. offers



14. code data insert

INSERT INTO Users (id, name, email, phone, address, role, created at)

VALUES (1, 'Alice Smith', 'alice@example.com', 812345678, '123 Main St, Medan', 'user', '2025-05-10');

select * from users;

INSERT INTO Cars (id, user_id, brand, model, year, price, transmission, service_history, fuel_type, mileage, description, sale type, status, created at)

VALUES (1, 1, 'Toyota', 'Avanza', 2020, 180000000, 'automatic', 'Yes', 'Petrol', '25000 km', 'Well-maintained family car', 'showroom', 'available', '2025-05-10');

select * from cars;

INSERT INTO Down_Payments (id, user_id, car_id, amount, payment_status, appointment_date, payment proof, created at)

VALUES (1, 1, 1, 50000000, 'confirmed', '2025-05-15', 'proof_001.jpg', '2025-05-10'); select * from down payments;

INSERT INTO sales_records (id, car_id, buyer_id, saler_id, sale_price, sale_date, status, created at)

VALUES (1, 1, 1, 1, 180000000, '2025-05-20', 'confirmed', '2025-05-10');

select * from sales_records;

INSERT INTO reviews (id, car_id, user_id, rating, comment, photo_review, status, created_at)

VALUES (1, 1, 1, 5, 'Excellent car, just as described!', 'review_001.jpg', 'approved', '2025-05-10');

select * from reviews;

INSERT INTO offers (id, user_id, brand, mileage, status, transmission, offered_price, year, model, condition, inspection_date, created_at)

VALUES (1, 1, 'Honda', '32000 km', 'pending', 'manual', 150000000, 2019, 'Brio', 'Very good condition, minor scratches', '2025-05-12', '2025-05-10');

select * from offers;