

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
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Ketua asisten : Muhammad Yasin
Jumlah lembar : 11



LABORATORIUM TEKNIK INFORMATIKA

UNIVERSITAS GUNADARMA

2025

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

id	name	email	phone	address	role	created_at
[PK] integer	character (100)	character (100)	integer	text	character varying (10)	date

2. table cars




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');

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

id	user_id	brand	model	year	price	transmission	service_history	fuel_type	mileage	description	sale_type
[PK] integer	integer	character (100)	character (100)	integer	integer	transmission_type	character (100)	text	character (100)	text	sale_type_enum

	status status_car_enum 	created_at date 
---	--	---






3.

```
-- 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

Data Output Messages Notifications

									SQL
id	user_id	car_id	amount	payment_status	appointment_date	payment_proof	created_at		
[PK] integer	integer	integer	integer	payment_status_enum	date	character (100)	date		

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
);
```

Output Messages Notifications

id	car_id	buyer_id	seller_id	sale_price	sale_date	status	created_at
[PK] integer	integer	integer	integer	integer	date	status_sales_records_enum	date

5. reviews

```

-- 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

id	car_id	user_id	rating	comment	photo_review	status	created_at
[PK] integer	integer	integer	integer	text	character (255)	status_review_enum	date

6. offers

id	user_id	brand	mileage	status	transmission	offered_price	year	model	condition	inspection_date
[PK] integer	integer	character (100)	character (50)	status_review_enum	transmission_type	integer	integer	character (100)	text	date

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

```
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;
```

Output Messages Notifications

id	name	email	phone	address	role	created_at
1	Alice Smith	alice@example.com	812345678	123 Main St, Medan	user	2025-05-10

9. insert data cars

```
✓ INSERT INTO Cars (id, user_id, brand, model, year, price, transmission, service_history, fuel_type, mileage, description, sale_status)
VALUES (1, 1, 'Toyota', 'Avanza', 2020, 180000000, 'automatic', 'Yes', 'Petrol', '25000 km', 'Well-maintained family car', 'sold');
select * from cars;
```

Output Messages Notifications

id	user_id	brand	model	year	price	transmission	service_history	fuel_type	mileage	description	sale_status
[PK] integer	integer	character (100)	character (100)	integer	integer	integer	character (100)	character (100)	integer	character (255)	enum
1	1	Toyota	Avanza	2020	180000000	automatic	Yes	Petrol	25000 km	Well-maintained family car	sold

10. insert data down_payments

```
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;
```

Output Messages Notifications

id	user_id	car_id	amount	payment_status	appointment_date	payment_proof	created_at
[PK] integer	integer	integer	integer	payment_status_enum	date	character (100)	date
1	1	1	50000000	confirmed	2025-05-15	proof_001.jpg	2025-05-10

11. insert data sales_record

```
18
19 ✓ INSERT INTO sales_records (id, car_id, buyer_id, saler_id, sale_price, sale_date, status, created_at)
20 VALUES (1, 1, 1, 1, 180000000, '2025-05-20', 'confirmed', '2025-05-10');
21 select * from sales_records;
22
```

Output Messages Notifications

id	car_id	buyer_id	saler_id	sale_price	sale_date	status	created_at
[PK] integer	integer	integer	integer	integer	date	status_sales_records_enum	date
1	1	1	1	180000000	2025-05-20	confirmed	2025-05-10

12. reviews

```
✓ 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;
```

Output Messages Notifications

id	car_id	user_id	rating	comment	photo_review	status	created_at
[PK] integer	integer	integer	integer	text	character (255)	status_review_enum	date
1	1	1	5	Excellent car, just as described!	review_001.jpg	approved	2025-05-10

13. offers

```
select * from reviews;
```

```
INSERT INTO offers (id, user_id, brand, mileage, status, transmission, offered_price, year, model, condition, inspection_date) VALUES (1, 1, 'Honda', '32000 km', 'pending', 'manual', 150000000, 2019, 'Brio', 'Very good condition, minor scratches', '2025-05-10');
```

```
select * from offers;
```

a Output Messages Notifications

id	user_id	brand	mileage	status	transmission	offered_price	year	model
[PK] integer	integer	character (100)	character (50)	status_review_enum	transmission_type	integer	integer	character (100)
1	1	Honda	32000 km	pending	manual	150000000	2019	Brio

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, 1800000000, '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, 1800000000, '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;
```