

Artwork/Project Title
Online Food Purchasing Database

Year Accomplished
2022

Role/Position
Data Engineer

Publication Link
https://bit.ly/Database_foodGojek

Artwork/Project Description

As part of my group database project, I designed a comprehensive database for an online food purchasing system using MySQL. The project posed several challenges, particularly in breaking down the data to ensure compliance with UNF to BCNF rules. I had to constantly re-learn each rule in every phase of the project and put in a lot of hard work to achieve the desired outcome. In the end, my efforts paid off as the final result of the database design was a 100% success. This project taught me the importance of attention to detail, persistence, and the value of hard work. I am proud of this project and confident in my ability to tackle complex database projects.

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Figure 1 Example of Functional Dependency

TransactionDetail Table

TransactionDetail		
OrderID	ItemID	Quantity
F-1942805643	IE94567218300	1
F-1942805643	IE84167924386	1

Functional Dependency:

OrderID → ItemID, Quantity

Figure 2 TransactionDetail Table

```
CREATE DATABASE gojek_food
```

```
CREATE TABLE MsDistrict(
    DistrictID CHAR(5) PRIMARY KEY NOT NULL,
    DistrictName VARCHAR(100) NOT NULL
);
```

```
CREATE TABLE MsProvince(
    ProvinceID CHAR(5) PRIMARY KEY NOT NULL,
    ProvinceName VARCHAR(100) NOT NULL
);
```

Figure 3 Query for Create Database

```
INSERT INTO MsStore VALUES
    ("ST8945173962", "Chatime X Cupbop, LP Pamulang", "Komplek Pamulang Permai, Jalan Pamulang Permai 1", "KL001", "KC001",
    "KK001", "PV001", "PC001", 9000),
    ("ST6370240598", "Martabak Pecenongan 78", "Jalan Entong Gendut Nomor 94", "KL003", "KC005", "KK003", "PV005", "PC002",
    12000),
    ("ST3365348135", "Rujak & Asinan Buah Aa", "Jalan Sulaiman, Gang Amal 4 Nomor 16", "KL002", "KC005", "KK010",
    "PV003", "PC009", 9000),
```

Figure 3 Query for Insertion

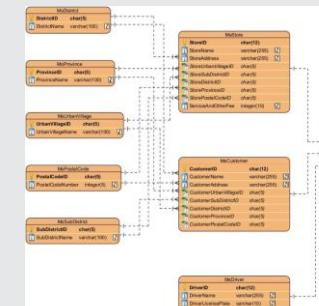


Figure 5 Entity Relationship Diagram

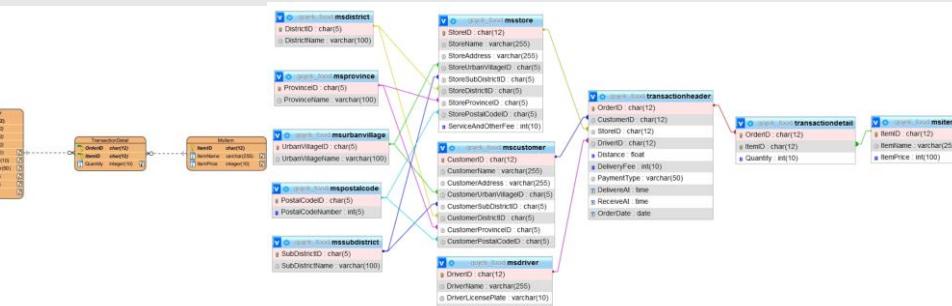


Figure 6 MySQL Database Structure

Belinda Mutiara

BINUS Students 5th Semester

belinda.mutiara@binus.ac.id

phone: 0812 8308 7870

line: belinda.mutiara

linkedin: www.linkedin.com/in/belinda-mutiara

Portfolio Submission for

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