

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 design projects.

Functional Dependency:

StoreID → StoreName, StoreAddress, StoreUrbanVillageID, StoreUrbanVillage, StoreSubDistrictID, StoreSubDistrict, StoreDistrictID, StoreDistrict, StoreProvinceID, StoreProvince, StorePostalCodeID, StorePostalCode, ServiceAndOtherFee

StoreUrbanVillageID → StoreUrbanVillage

StoreSubDistrictID → StoreSubDistrict

StoreDistrictID → StoreDistrict

StoreProvinceID → StoreProvince

StorePostalCodeID → StorePostalCode

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

ItemName	ItemPrice	Quantity	StoreName	StoreAddress	ServiceAndOtherFee	CustomerName	CustomerAddress	DriverName	DriverLicensePlate
Martabak Upgrade Down Oromatine Kayu	145000	1	Martabak Pecenongan 78	Jalan Entong Gendut nomor 94	12000	I Kabut	Jl Meati Kav. 97	Putri Rahayu	B2208MLD
Martabak Tiger kayu	45000	1	Martabak Pecenongan 78	Jalan Entong Gendut nomor 94	12000	I Kabut	Jl Meati Kav. 97	Putri Rahayu	B2208MLD
Coffee Milk Brown Sugar	20500	1	Jakarta Chinese Factory	Komplek Podomoro City, J. Lelip S. Paman Kawi.	15000	Nurul Putri	Jl Tulip Blok B No. 1	Yunita Riza	B6469AAV
Pure Cocoa	26500	1	Chatime X Cupbop, LP Pamulang	Komplek Pamulang Permai, Jalan Pamulang Permai 1	9000	Fegri Putra	Jl Mawar 3 Blok C3 No. 1	Agam Maulana	B6346WUF
Thio Holdak Mozarella	67000	1	Chatime X Cupbop, LP Pamulang	Komplek Pamulang Permai, Jalan Pamulang Permai 1	9000	Fegri Putra	Jl Mawar 3 Blok C3 No. 1	Agam Maulana	B6346WUF

Figure 4 Query Output Example

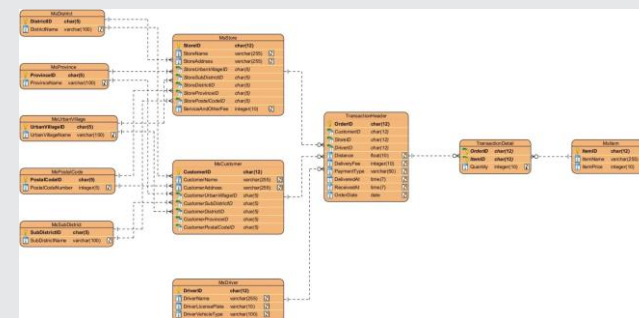


Figure 5 Entity Relationship Diagram

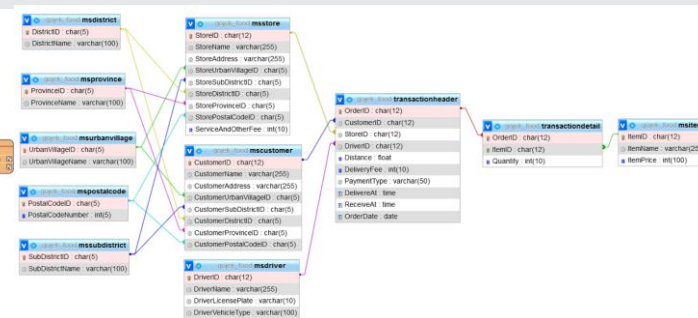


Figure 6 MySQL Database Structure

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

**BINUS Internship Track
2024**