



**Computer Science Department**

**Database Systems 333**

## **Al-Silawi Online Store**

**[28]**

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## Summary

Al-Silawi online shopping store that sells various products. The project aims to design an effective database that enables inventory management, manager can see the order details of the customers, and customer information.

## Introduction

Our project is based on an online desktop application store for home appliances belonging to Al-Silawi Company. Which enables the customer to purchase from the store, determine the payment mechanism, and know the value of the receipt. The system also allows the manager to control the management of the store, issue reports and account statements, and add new items to the store.

## Data Requirements

- Customer is identified by a customer\_id and his name, email, phone\_number and shipping\_address, password, date\_of\_birth, gender, city.
- Order have an order\_id, order\_date, total\_price, payment\_status and shipping\_status.
- Product have a product\_id, name, description, price.
- Manager is identified by a manager\_id and his name, email and phone\_number, password, date\_of\_birth, gender, city.
- Login have a login\_id, username and password.
- Categories have a category\_id and name.
- Payment have payment\_id, payment\_date and payment\_amount.
- Cart have a cart\_id, and total\_price.
- Cart Item have a cart\_item\_id, quantity and price.
- A customer can place zero or many orders, but each order must be associated with exactly one customer.
- Each order can contain zero or many products, and each product can be included in zero or many orders. This relationship is represented by an intermediary table called Order-Item, which contains information such as the quantity and price of each product in an order.
- Each manager must have one login account, and each login account must belong to exactly one manager.
- Each customer must have one login account, and each login account must belong to exactly one customer.
- Each product must belong to exactly one category, and each category may contain zero or many products.

- Each order must be associated with one payment method, and each payment method may be associated with zero or many orders.
- Each customer must have one shopping cart, and each shopping cart must belong to exactly one customer.
- Each shopping cart may have zero or many cart items, and each cart item must belong to exactly one shopping cart.

## **Technology**

Technology: Laptop Asus core i7, Laptop HP core i7 , Windows 11, Database: MySQL, and programming language : java ) Scene Builder and java FX ).