

2025

DataBase Management System

Project ERD

Representators:

- Muhammad Waleed(110839)
- Aakif Saleem(110840)



Submitted To:
Mam Sehrish Khan

DataBase Management System

Semester Project

Department:

BS IT

Semester:

4th

College:

**Govt. Post Graduate College
Civil Lines, SKP**

ERD

Statement:

Clothing Store Chain with Seasonal Lines and Return Policies. A fashion retail chain launches clothing lines seasonally (Spring, Fall, Wedding Collection). Each product varies in size, color, and fabric type. Store inventory is synchronized with an online portal. Customers can return items through both channels, specifying reasons such as defects, size mismatch, or product not matching the online description. Each return is tracked, and high-return items are flagged for review. The system also logs customer preferences for personalized marketing.

Entities:

- Product
- Inventory
- OrderItem
- Order
- Customer
- Return
- Review Flag

Entities with attributes:

1. Product (Product ID, Product Name, Size, Fabric Type, Season, Description)
2. Inventory (Inventory ID, Product ID(FK), Quantity, Store Location)
3. OrderItem (OrderItem ID, Order ID(FK), Price, quantity, Product ID(FK))
4. Order (Order ID, Customer ID(FK), order date, total price)
5. Customer (Customer ID, name, email, preference)
6. Return (Return ID, OrderItem ID(FK), reason , Return data)
7. Review Flag (Flag ID, Return ID(FK))

