

DBCWork DEF

by Ethan Furbert

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Course Work Written Elements



Prifysgol Cymru
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11/12/2024

IntroToWeb&DBConcepts

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Divya Chidambaram

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Introduction

Building a database for a jewelry store entail planning an organized system to effectively handle several business operations, such as inventory, sales, clients, and suppliers. A well-structured database facilitates decision-making, increases customer service, and streamlines processes.

Key Considerations:

Inventory management: Each jewelry item's kind (e.g., rings, necklaces), material size, weight, price, and amount in stock should all be tracked by the database. When items are sold or refilled, this enables real-time updates.

Sales Transactions: Efficient order processing and financial tracking are ensured by a system for documenting customer purchases, which includes item descriptions, pricing, transaction dates, and payment methods.

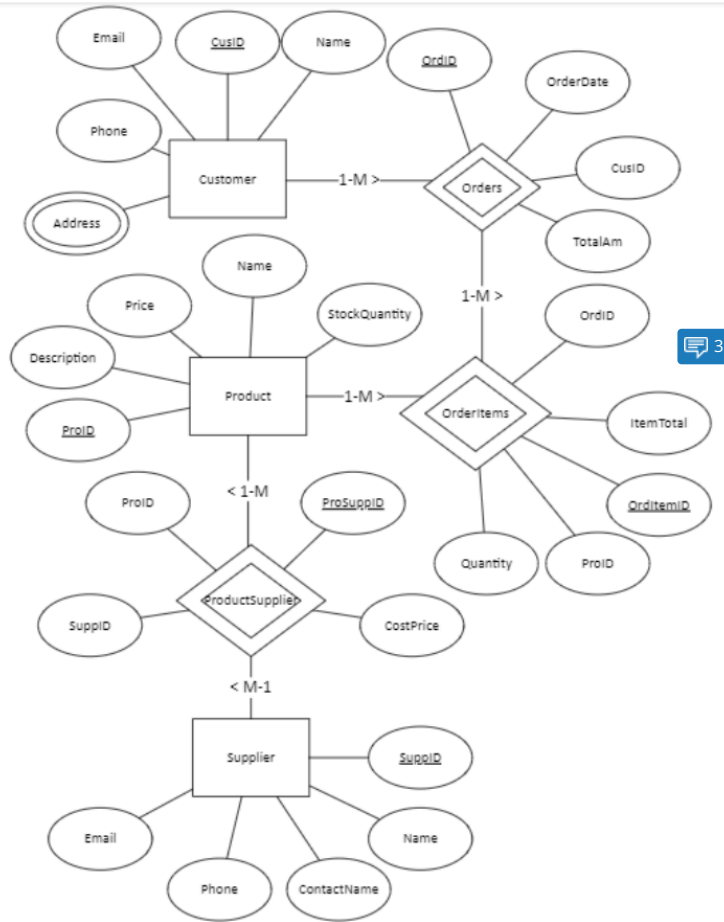
Customer Data: Names, contact information, past purchases, and preferences should all be kept in the database. Customer relationship management and tailored marketing are made possible by this.

Supplier Data: The database should record supplier data, such as contact details, product offerings, and order history, in order to facilitate efficient supply chain management.

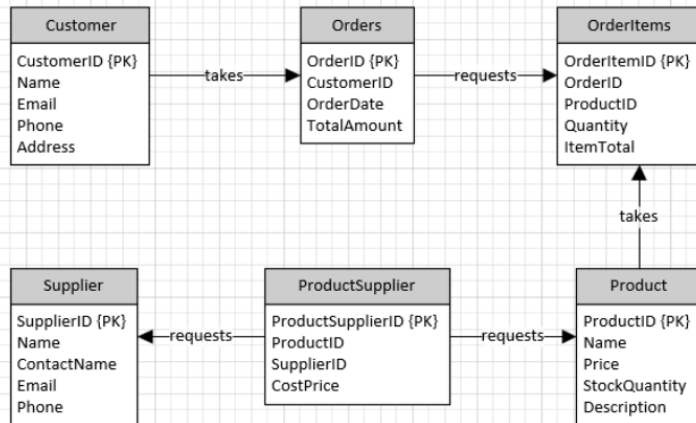
Reporting and Analytics: A well-designed database facilitates strategic decision-making by enabling the generation of sales statistics, inventory status, and customer trends.

By creating a relational database with tables for these key areas, the jewelry store can automate many manual tasks, reduce errors, and ultimately improve overall efficiency and customer satisfaction.

Entity Relationship Diagram (ERD)



Logical Design



Justification

My reason for creating such tables and queries for this database is that each part being important to properly create a transitional relationship across all queries.

- Customer – Created for the user to record the consumer's information
- Orders – Created for the user to record the order's created by the customer
- OrderItems – Created for the user to track orders and check stock in product
- Product – Created for the user to track the current stock and availability of products
- ProductSupplier- Created for the user to supply products and services
- Supplier – Created for the user to supply and deliver products

All Access Obj...  

Search... 

Tables 

 Customer

 OrderItem

 Orders

 Products

 ProductSupplier

 Supplier

Queries 

 CustomerQuery

 OrderItemQuery

 OrderQuery

 ProductQuery

 ProductSupplierQuery

 SupplierQuery

Forms 

 CustomerForm

 OrderItemForm

 OrdersForm

 ProductsForm

 ProductSupplierForm

 SupplierForm

Reports 

 Customer

 Orders

 Products

 Supplier



References



- [1] "Home - Gemworld International," 13 December 2023. [Online]. Available: <https://www.gemguide.com/>.
- [2] A. Miller, "Copyright Protection for Computer Programs, Databases, and Computer-Generated Works: Is Anything New Since CONTU?," *Harvard law review*, vol. 1, no. 5, pp. 977-1073, 1993.
- [3] "Collections Overview," 9 November 2024. [Online]. Available: <https://naturalhistory.si.edu/research/mineral-sciences/collections-overview>.



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PAGE 1

PAGE 2



Comment 1 | Eng. with literature skills

a brief toc

PAGE 3



Comment 2 | Transferrable skills

introduction could start with a brief description about the business case and challenges with current system and need for building a new database system

PAGE 4



Comment 3 | Knowledge&understanding skills

what does the various notations mean?

PAGE 5



Comment 4 | Practical Application skills

screenshots of all tables, forms queries etc are missing

PAGE 6

PAGE 7



Comment 5 | Practical Application skills

the navigation buttons in main page doesn't seem to serve their intended purpose.



Comment 6 | Knowledge&understanding skills

some of the tables doesn't seem to have any records in it

PAGE 8



Comment 7 | Eng. with literature skills

The report would benefit from more academic references, such as notes or textbooks, to deepen the theoretical foundation.



Comment 8 | Transferrable skills

A conclusion is currently missing from the report, which leaves the reader without a final summary or reflection on the overall project

GRADING FORM: DC_IWD

ETHAN FURBERT

34

ENG. WITH LITERATURE SKILLS

Materials to support the development of the database system



4

KNOWLEDGE&UNDERSTANDING SKILLS

ERD Description of tables with field names, datatypes, and constraints



14

PRACTICAL APPLICATION SKILLS

*populate database, Implementation with primary key, foreign key,
Validation rules Forms Queries Reports*



16

TRANSFERRABLE SKILLS

• *Readability of the report.* • *Written quality, including spelling and grammar and the use of appropriate formal language.* • *Structure and presentation including screenshots of the report.* • *Critical evaluation of the selected database methods, tools and techniques and their deployment.*



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