

Assignment 1 Jacob Davies

2416227

by Jacob Davies

Submission date: 11-Nov-2024 03:34PM (UTC+0000)

Submission ID: 242330804

File name: 57571_Jacob_Davies_Assignment_1_Jacob_Davies_2416227_626615_589221853.docx (225.76K)

Word count: 472

Character count: 2058

Database Concepts Assignment 1

Jacob Davies 2416277

Table of Contents

Contents

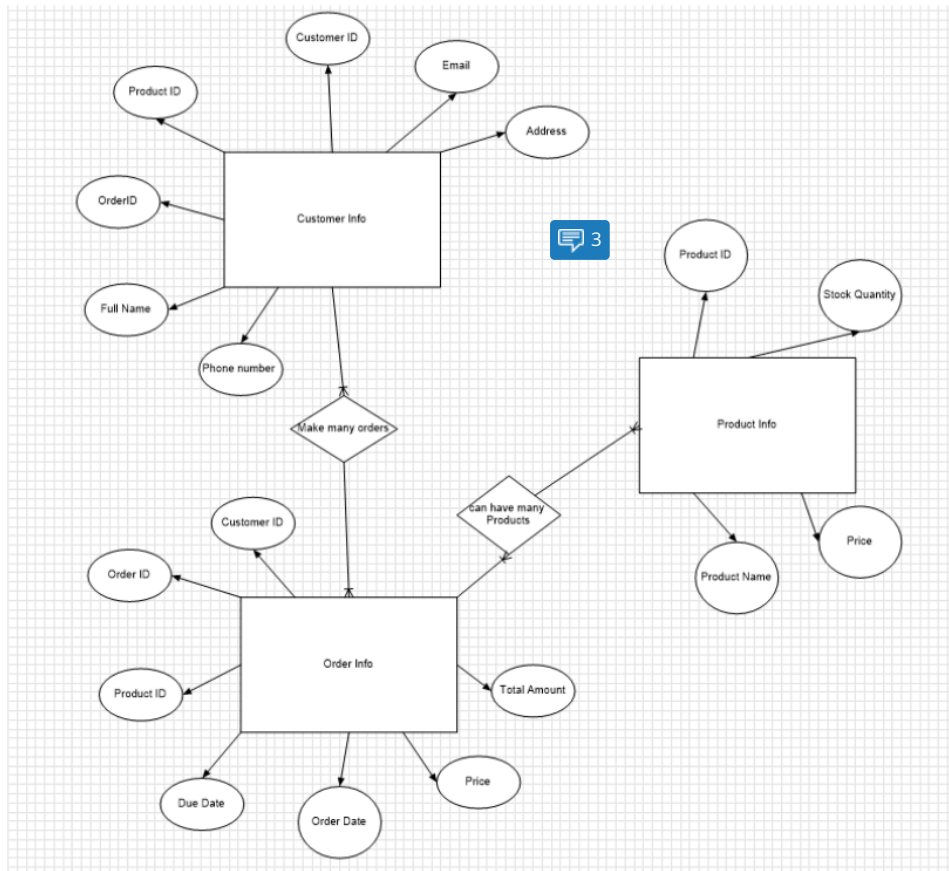
Introduction  1 3

Introduction

I have been asked to create a database that will help CraftGem manage their business with a database system to improve efficiency. I have developed a database that tracks their customer info, or  2 o and product info.

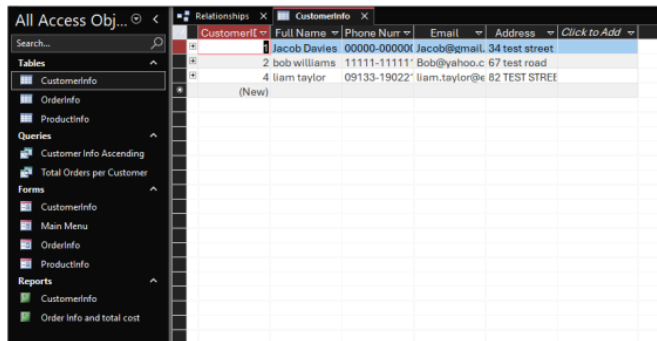
Task 1 ERD

I created an Entity Relationship Diagram to explain the relationships I created between my tables. I have used the Squares to name the table itself and I have used the ovals to show the contents of each table. I have also included diamonds with a one to many line connecting them to show what tables connect to each other and why they should connect to each other. The ID fields are primary keys and these are used across each table as they link the tables together.



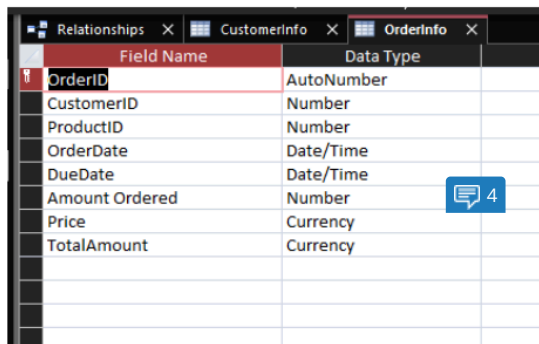
Task 2 Tables

I created 3 different tables CustomerInfo, OrderInfo and ProductInfo. I included Fields that I thought were relevant to the task that was set and below is an example of one of the tables with some information so in my Customer Info table I just included some information about the customer like their name and address.



	Full Name	Phone Num	Email	Address	Click to Add
1	Jacob Davies	00000-000000	Jacob@gmail	34 test street	
2	bob williams	11111-111111	Bob@yahoo.c	67 test road	
4	liam taylor	09133-19022	liam.taylor@e	82 TEST STREE	
(New)					

In the order Info table I included foreign keys which linked to the Product ID and Customer ID so it was easy to identify whose order it was. This included an amount ordered and price which pulled from the product info which later works out the total cost of the order on the form



Field Name	Data Type
OrderID	AutoNumber
CustomerID	Number
ProductID	Number
OrderDate	Date/Time
DueDate	Date/Time
Amount Ordered	Number
Price	Currency
TotalAmount	Currency

With the product info table I included an ID, Product Name, Price and stock quantity which also links to the form to let you know if its running low on stock

Task 3 Forms and Reports

I created a main menu for easy navigation and this allows you to jump between the different forms I created

Craft Gem

Main Menu



Open Customer Info

Open Order Info

Open Product Info

I created a customer Info form which includes the customers info and allows you to add new records and delete them if needed. There is also a button to take you back to the main menu if you wanted to go to a different form

CustomerID	(New)
Full Name	
Phone Number	
Email	
Address	

Add New Record

Delete Record

Save Record

Return to Main Menu

I included an order info form which has information about the order so it tells you the product ID, how much it was, how many they ordered which then links to the total price.

OrderID	4
CustomerID	2
ProductID	1
Price	£20.00
Amount Ordered	3
OrderDate	11/11/2024
DueDate	28/11/2024 
Total Price	£60.00

I included a product info which shows you the price for each item and then also how much stock there is. If the stock quantity goes below 50 then it will tell you that there is limited stock to let you know to order more



ProductInfo

ProductID

ProductName

Price

StockQuantity

Available

Add New Record

Delete Record

Save Record

Return to Main Menu

ProductInfo

ProductID

ProductName

Price

StockQuantity

Limited Stock

Add New Record

Delete Record

Save Record

Return to Main Menu

I created a report based off of a query to list all customers and their orders with the total cost

CustomerInfo				
CustomerID	Full Name	Phone Number	Email	Address
7	jacob	93939-393993	Test@email.com	24928592 test street
Total Price		£200.00		
11 November 2024			P.	

I also created a form to list all of the customers in ascending order based off of their full name

Customer Info Ascending				
CustomerID	Full Name	Phone Number	Email	Address
7	jacob	93939-393993	Test@email.com	24928592 test street
11 November 2024		P.		

Assignment 1 Jacob Davies 2416227

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

40/100

PAGE 1

PAGE 2



Comment 1

Table of Contents should include all sections of the report for improved navigation

PAGE 3



Comment 2

More specifics about the organisation could have been included

PAGE 4



Comment 3

The ERD effectively identifies many entities and their relationships. However, using precise database terminology would significantly enhance clarity and precision.

PAGE 5



Comment 4

The screenshots effectively demonstrate the data types of attributes

PAGE 6



Comment 5

main menu could include more options for queries and reports



Comment 6

the customer table has only one row of value and the query to sort in ascending order is of not great help

PAGE 7



Comment 7

conditional formatting well applied

PAGE 8

PAGE 9



Comment 8

justification of having this form is missing



Comment 9

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



Comment 10

concepts like referencing creditable sources, normalisation and data validation are missing

GRADING FORM: DC_IWD

JACOB DAVIES

40

ENG. WITH LITERATURE SKILLS

Materials to support the development of the database system

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

0

KNOWLEDGE&UNDERSTANDING SKILLS

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

-  The ERD is structured logically, with One-to-Many relationships that are appropriate however more specifics could enhance clarity

21.5

PRACTICAL APPLICATION SKILLS

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

-  The use of conditional formatting for stock levels is a practical and effective feature. Enhancing the database with more dynamic queries would add significant value

13.5

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.



The design choices in the ERD and database demonstrate clear problem-solving skills aligned with Craft Gem's requirements. More critical evaluation of the system's limitations, such as any areas where the design could hinder future growth.