

COMP 3005 - Final Project

Description

For my final project in COMP 3005, I have created a database for business owners. This project assists owners who own a business to keep track of the purchases made by their customers and information about their employees. There are still multiple businesses that have not shifted to the digital /online world. The motivation behind this proposed project is that my family owns a couple of businesses, where I have frequently helped out. Furthermore, I have been present in many decision-making factors when it comes to an attempt of satisfying our customers through having our business conveniently accessible for everyone.

To start with, the database will have to keep track of all the products, sales, employees, and customers' information which will include names, addresses, phone numbers, product names, product cost, the sale date of purchase, and sales transaction type, etc. All of those four will be entities as well as customers to sales and products to sales will be many to many relationships. This knowledge will allow the owner to be organized so they can track down any information needed for sales, products, customers, or employees and helped it identify its key inefficiencies.

Application Requirements

R1.1) Client will be able to access information on all sales at its business, including sale price, date of purchase, sale transaction type, etc.

R1.2) Client will be able to access information on all products sold at its business, including product name, product cost, number of purchases, etc.

R1.3) The database will allow the client to retrieve information and data for certain customers, or employees.

R1.4) The target size will be 50 items, 25 customers, and 10 employees.

R1.5) The database will have the inventory of the product and quantities of the products purchased.

R1.6) The database keeps track of the most popular item, by checking the number of purchases made.

R1.7) This application will be hosted using a web browser with user interaction through a popular browser.

Schema

Business

<u>Busi_Id</u>	Name	Address
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Customer

<u>Customer_Id</u>	Name	Phone_Number	Email	Address
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Sale

<u>Sale_Id</u>	Date_Purchased	Trans_Type	Total
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Product

<u>Product_Id</u>	Name	Cost	Dept	Number_Purchases	Inventory
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Employee

Name	<u>SIN_Number</u>	Dept	Email	Address	Phone_Number	Salary	Busi_Id
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Purchases

<u>Sale_Id</u>	<u>Customer_Id</u>
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Contains

<u>Sale_Id</u>	<u>Product_Id</u>	Quantity
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