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| ITEC 3200 |
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| Build Your PC |

ITEC 3200

Executive Summary

**Objective**

This database was created to help **Build Your PC** with managing, tracking, and storing information about variety of computer components and customers.

**Goals**

Our goal with this database project is to assist Build Your PC with an organized table to ensure customers get the right computer components to build their computer. We will create queries to gather information about our customers and organize them to guarantee customers will get their requested computer parts.

**Solution**

The solution is to develop different categories of tables and establish relationships between them based on the customer’s order request. The tables created are Customer, Order, Build, Part\_has\_Build, and Parts. These tables list the products **Build Your PC** has to offer and will link with one another based on the consumers’ choices. This will provide a more organized work environment for the company to quickly and successfully get orders out.

**Benefits to Users**

This database will be handy for organizing information in a simple and quick way. It creates easy to follow step by step process no matter the magnitude of the computer order.

**Project Outline**

The project will contain the following major components:

* Entity-Relationship Diagram
* Table Implementation
* Queries

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Entity-Relationship Diagram

A diagram of a workflow

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Table Implementation

Build

A black and white table with numbers and text

Description automatically generated

Customer

A screenshot of a computer

Description automatically generated

Order

A black and white table with numbers and numbers

Description automatically generated

Part

A black and white screen with white text

Description automatically generated

Part\_has\_Build

A black and white table with numbers

Description automatically generated

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Query Implementation

### Query 1

* List orders whose price is over $1000.00 and have not been shipped

### Query 2

* List customers whose phone number starts with area code 678

### Query 3

* List all part models that have the brand of intel or amd

### Query 4

* displays order number, customer's name, date and total of the orders.

### Query 5

* displays the orders’ totals before and after a hypothetical 20% increase in price

### Query 6

* displays how many builds each customer has created

### Query 7

* displays a list of customers and their emails that placed their order in the same year as Cameron Liu