

22CSIS10P

Introduction to Information Systems

# Phase 2 Report

## Group # ( )

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# Project Description:

It is required to create a database for electronics store management system. Electronic store management system is a database that enables the owner of the electronic shop to execute the daily tasks more efficiently. Each customer has a unique ID, name, DOB (date of birth), phone, address and email. Every employee has a unique ID, name, DOB (date of birth), phone, address, email, and salary. Every supplier has a name, unique ID, phone, email, location, zip code, and city. Each distributor has a unique ID, phone, email, name and type. Each delivery has its own ID, details, cost, region of delivery, and ETA (estimated time of arrival). Every repair has its own code, cost, description, return date and received date. Every payment method has a code, type of payment method, amount, payment date, and account number. Every branch has its own ID, location, opening hours, email, and number of workers. Each invoice has a code, total, date of purchase and a description. Every product has code, tурe, name, brand, price, and a description. Every equipment has an ID, tурe, name, brand and description. Each inventory has a code, type, location, section, and quantity. The provide table connects the equipment and the supplier as well as it includes the equipment ID, quantity and supplier ID, since each supplier provides us with different quantity of the equipment. The supply table connects the supplier and the product as well as it includes product code, supplier ID, and the brand as we assume that each supplier has a different brand. The distribute table connects the distributor and the product as well as it includes the product code, distributor ID and selling price as we assume that every distributor charges a different price. A customer can order many deliveries, but a delivery is made for one customer. A customer can also request several repairs, but a repair is made for one customer. A customer can use ample payment methods, but the payment method is done for only on customer at a time. A customer can have many invoices, but an invoice is assigned to one customer. Many products can be distributed by many distributors and many distributors can distribute many products. Many products can be provided by many suppliers and many suppliers can provide many products. An invoice contains many products, but a product can be included in one invoice only. One product can be included in one inventory and one inventory may include many products. An employee can work in one branch and one branch can include many employees. Many equipment can be provided by many suppliers and many suppliers can provide many equipment.

# Tables and Relationships:



product

delivery

customer



invoice



supplier



Payment-method



distributor



inventory

repair



Equipment



# Tables and Attributes:

employee

branch

|  |  |
| --- | --- |
| Customer | |
| Attributes | **Data type** |
| C\_ID (PK) | AutoNumber |
| C\_name | Short Text |
| C\_DOB | Date/Time |
| C\_phone | Short Text |
| C\_address | Short Text |
| C\_email | Short Text |

|  |  |
| --- | --- |
| Employee | |
| Attributes | **Data type** |
| E\_ Name | Short Text |
| E\_ ID (PK) | AutoNumber |
| E\_DOB | Date/Time |
| E\_phone | Short Text |
| E\_address | Short Text |
| E\_email | Short Text |
| E\_salary | Currency |
| Branch\_ID (FK) | Number |

|  |  |
| --- | --- |
| Supplier | |
| Attributes | **Data type** |
| S\_name | Short Text |
| S\_ID (PK) | AutoNumber |
| S\_location | Short text |
| S\_phone | Short text |
| S\_email | Short Text |
| S\_ZIP\_code | Number |
| S\_city | Short text |

|  |  |
| --- | --- |
| Distributer | |
| Attributes | **Data type** |
| distributor\_name | Short Text |
| distributor\_ID (PK) | AutoNumber |
| distributor\_email | Short Text |
| distributor\_phone | Short text |
| distributor\_type | Short text |

|  |  |
| --- | --- |
| Branch | |
| Attributes | **Data type** |
| branch\_ID (PK) | AutoNumber |
| branch\_location | Short Text |
| opening\_hours | Number |
| branch\_email | Short text |
| branch\_number\_of\_workers | Number |

|  |  |
| --- | --- |
| Delivery | |
| Attributes | **Data type** |
| ID\_of\_the\_shipment (PK) | AutoNumber |
| delivery\_details | Long Text |
| shipping\_cost | Currency |
| ETA | Date/Time |
| C\_ID (FK) | Number |
| region\_of\_delivery | Short Text |

|  |  |
| --- | --- |
| Equipment | |
| Attributes | **Data type** |
| equipment\_ID (PK) | AutoNumber |
| equipment\_name | Short Text |
| equipment\_type | Short Text |
| equipment\_brand | Short Text |
| equipment\_description | Long Text |

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| --- | --- |
| Insurance | |
| Attributes | **Data type** |
| insurance\_ID (PK) | AutoNumber |
| insurance\_type | Short Text |
| insurance\_cost | Currency |
| insurance\_expiry\_date | Date/Time |
| insurance\_date\_of\_registering | Date/Time |

|  |  |
| --- | --- |
| Inventory | |
| Attributes | **Data type** |
| inventory\_code (PK) | AutoNumber |
| inventory\_type | Short Text |
| inventory\_location | Short Text |
| inventory\_section | Short Text |
| quantity | Number |

|  |  |
| --- | --- |
| Invoice | |
| Attributes | **Data type** |
| invoice\_code (PK) | AutoNumber |
| invoice\_total | Currency |
| date\_of\_purchase | Date/Time |
| descreption\_of\_the\_invoice | Long Text |
| C\_ID (FK) | Number |

|  |  |
| --- | --- |
| Product | |
| Attributes | **Data type** |
| product\_code (PK) | AutoNumber |
| product\_name | Short Text |
| product\_type | Short Text |
| product\_price | Currency |
| product\_brand | Short Text |
| product\_description | Long Text |
| invoice\_code (FK) | Number |
| inventory\_code (FK) | Number |
| Insurance\_ID (FK) | Number |

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| --- | --- |
| Payment | |
| Attributes | **Data type** |
| payment\_method\_code (PK) | AutoNumber |
| type\_of\_payment\_method | Short Text |
| Amount | Currency |
| payment\_date | Date/Time |
| account\_number | Long Text |
| C\_ID (FK) | Number |

|  |  |
| --- | --- |
| Repair | |
| Attributes | **Data type** |
| R\_code (PK) | AutoNumber |
| R\_description | Long Text |
| R\_cost | Currency |
| R\_recieved\_date | Date/Time |
| R\_return\_date | Date/Time |
| C\_ID (FK) | Number |

|  |  |
| --- | --- |
| Supply | |
| Attributes | **Data type** |
| S\_ID (PK) | Number |
| product\_code (PK) | Number |
| brand | Short Text |

|  |  |
| --- | --- |
| Distribute | |
| Attributes | **Data type** |
| product\_code (PK) | Number |
| distributor\_ID (PK) | Number |
| Selling\_Price | Currency |

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| --- | --- |
| Provide | |
| Attributes | **Data type** |
| equipment\_ID (PK) | Number |
| S\_ID (PK) | Number |
| Quantity | Number |

