|  |
| --- |
| **Assignment 4 – Final Project** |
| COMP122 – SEC.004 |
| Irin Cibi - Student ID: 301248509 Juan Marmolejo Tangarife - Student ID: 301223791 Sandra Bolos – Student ID : 301260176 |
|  |

1. **A paragraph briefly describing the topic and providing a problem statement**

The clothing store is facing a problem organizing its clothing sales. The store is unable to keep track of how many orders they received, how many is the profit of each item and the incomes of the store per order. Moreover, the store does not keep track of the shipments, they want to know how many days it takes for a shipment be delivery. There are different clothes such as t-shirt or sneakers. The store also needs a data table to save the name of the employee who made each sale. This data will then be reviewed later to pay the employee’s commission. Also, the store needs to save the data of the costumers to contact them for discounts or new collections. Finally, the store needs a database that will store essential employee information like address, emergency contact, etc.

The store is facing a problem keeping track of their sales, shipments, save the data of the costumers and employee performance, this issue can be addressed by creating six database tables.

1. **A paragraph stating how the database will assist in providing the solution.**

The database will create six tables to solve the problem faced by the store. Table 1 will hold the information on all the employees that work at the store and their sales performance. Their performance will be analyzed by checking the number of orders that they completed. Table 2 will hold the records of regular customers and their personal information to be in contact. Table 3 will be for keeping track of all the shipments orders, every order must have a shipment information. Table 4 will hold information on all the products that are currently on sale. This table will help to keep track of how many of the products are in stock. Table 5 will keep a record of the orders that the costumer made. By using this table, the store will be able to track how many orders they received daily. Finally, table 6 will be a bridge for the order and item table, this table hold what item, quantity and the cost of each order made.

1. **A paragraph how the database will fit with other potential parts of the system architecture to provide a complete solution it is expected that the database will be part of a complete software process, even though group’s will only be designing and developing the database only.**

The database will be part of an entire system that will assist the company and its employees, starting from their website where customers will use to order and pickup clothes, for in-person shopping, and support to the employees’ file system. The database will provide a clear, trusted foundation for the clothing store to ensure a proper product count, daily orders check, keep track of the shipments, easy access to employee’s and costumers data and information.

The database will be accessed through the Oracle Database application to provide a complete database to the owner for use in the clothing store, making easier the accounts of the store and giving a better user experience.

1. **A point form list, or table format, of the business requirements/rules for your project**

* The customers can do one or many orders at they want
* The customers must be 18+ years old
* An order is related with one costumer, one employee and one shipment
* Order\_items is a bridge for order and items, so each order is related with one or more items
* The order must have one and only one shipment
* The employees can sale one or many orders
* The orders must have one or many order\_items
* The order\_items must have at least quantity 1
* The items can relate with one or more order\_items
* The cost of the item must be lower than the retail price