

## **Database Concepts: Assignment 1 Q2.1**

**Name:** Duncan Do

**Student Number:** s3718718

2.2 You are given the task to design a relational database to keep all information shown in Table 1. Note that Table 1 only contains sample data and your database will need to keep a lot more data. Give the schema for each relation in your database and underline primary keys and put asterisk for foreign keys. Justify your design for each relation. Your database must be able to answer the listed queries and any further queries on customers and their orders.

Customers(customerNo, customerName, phone, address, city, state, postcode, country)

- The customers relation holds information such as customer name and phone number because that is all data relating to the customer and customer only

Orders(orderNo, productNo, quantity, unitPrice, salesRep, customerNo\*)

- The orders relation holds information relating to the order. Such as the product number, quality of the product, quantity etc.)
- It also includes a foreign key to the customer ID
- This is to enable a query to get all orders for when customer ID equals "x" or get the customer details for order "y"