Database Assignment

My Phone

DT228/2 Group D

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**Introduction**

In this Assignment we were put into groups and asked to build a fully functional database for a mobile phone service called My Phone.

We were put into a group of three and told to allocate a role each as well as giving privileges to different parts of the database.

If you see below we will go through the necessary tables needed to make this database both users friendly and efficient. We have also added our Erwin diagram for so you can see the exact relationships and primary keys we used for this project.

**In the database we have constructed the following tables;**

Supplier – Supplier details are held on this table.

Product – This is all our phone details, including what extra credit you get on certain models.

Order Stock – we can keep track of our orders from the suppliers.

Serial Numbers – This is where we can find all serial numbers for relevant phones.

Plan\_T - this table holds all of the plan details of each customer.

Store\_T - In this table we will record all our store details.

Employees – This is where all of our employee’s details will be recorded.

Customer – A customer table is focused on our customer details.

Phone\_Number - The entire phone numbers that our company provides.

Usage\_T - This holds the record of all calls, texts, data and international calls for each customer that we have.

Transaction\_T – The hub of the database all customer transactions are recorded here.

Roles and Privileges

In our store we have selected 3 roles and given the following privileges and duties to the employees involved.

1. In store and online sales (Sanita)

The sales department consists of both the in store and online, this role the employee will be required to undertake all our daily transactions from customers updating the fields in the transaction table once the transaction is completed.

This department also has editing access to the customer table as they will need to update any customer details and also add new customers to this table.

We have given them more privileges to select from the following tables; Phone\_Number, Product, Plan\_t, Store\_t and serial numbers. This is needed for when customer calls or walks into the store the sales person is able to retrieve all their relevant details efficiently.

1. Stock management (Kenny)

In this role the employee will be required to manage the stock levels for the stores, he will check the stock as it arrives and add all the relevant serial numbers with our phone identification to our serial number database.

They will also have to add the list of stock details and quantities to the product table this will allow our sales and in store team find out what phones we have in stock at any given time, they will also monitor the stock levels on this table and if they are getting low the employee will place an order by using the Order\_Stock table, when the phones arrive from our suppliers we will be able to check if we have received the right goods as we will have a record of the order on our system.

This employee will be able to select from the transaction\_t and the supplier table, this allows the employee to manage the stock levels within the stores.

1. Billing, plan tariffs and Admin (Amil)

The billing department is in charge of all our plans and tariffs, this role will be able to add to the plan\_t, table. The employee will view the transactions for the day and put the customers on to the plans they have purchased.

This role will construct bills for our customers on a 2 monthly basis as well as updating the usage table on a daily basis. Our customer will receive an itemized bill from our Billing department in the post.

Other admin duties that is department carry out are when we get new employees they update the employees details on the employee table.

This role can also select from transaction\_t, phone\_number, customer\_t and store\_t this is essential for the employee to carry out his/her daily duties as they need to access this information efficient.

ERwin Model

