# CompSys

## compSys.sql

## Project Brief

**PC Solutions** is considering implementing a computerised system to handle their staffs, customers, repairs, inventory and account records. The following is a description of the system:

Details of all the **Staff**, including managers, interns and normal staff, is recorded in the **Staff File.** Each staff is identified by a unique staff ID and has staff details – surname, forename, DOB, gender, address1, address2, town, county, telephone, mobile, e-mail, staff type and status. The company has the ability to Add, Amend and List the details of all the staff in the Staff File.

The company will record every customer before they can proceed with a new repair, therefore, the company needs to store all the **Customers** in the **Customers File**. Each customer is identified by a unique customer ID and has the details – Surname, Forename, DOB, Gender, Address1, Address2, Town, County, Telephone, Mobile, E-Mail, Customer Type and Status. The company has the ability to Add, Amend, Query and List the details of all the customers in the Customers File.

The requirements of an incoming repair job are logged in the **Repairs File.** Each job is assigned a job reference number and may be for a new customer or an existing customer. For new customers, the customer details are recorded in the Customer File. A job is for only one ‘Repair ID’ but a customer may have several jobs on-going at the same time.

## Relational Schema

**Step 1:**

Staff(……)

Customers(……)

Repairs(…….)

Estimate(……)

Inventory(…….) //Inventory of parts and job rates

Invoice(…..)

Login(…..)

**Step 2:**

**Staff**(StaffID, Surname, Forename, DOB, Gender, Address1, Address2, Town, County, Tel, Mobile, Staff\_type, Status)

**Customers**(CustomerID, Surname, Forename, DOB, Gender, Address1, Address2, Town, County, Tel, Mobile, Cust\_type, Status)

**Repairs**(RepairID, Description, DeviceType, OS, Colour, Brand, Model, Prob\_Type, Repair\_Date, Collection\_Date, Status)

**Estimate**(Est\_Id, EstDate, Status, Total)

**Inventory**(Name, Description, Price, Quantity, TaxRate, Warranty, Condition, DiscountRate, Vendor)

**Invoice**(InvNo, TotalCost, Deposit, TotalDue)

**Login**(StaffId, username, password, lastlogin)

**Database Schema**

**Staff** (

StaffId int(10) NOT NULL auto\_increment {pk}

Surname char(25) NOT NULL (Surname > 0)

Forneame char(25) NOT NULL CHECK (Forename > 0)

Town char(10)

County char(20)

DOB date NOT NULL

mobile char(15) NOT NULL

login char(25) NOT NULL

password char(25) NOT NULL

)

**Customers** (

CustId int(10) NOT NULL auto\_increment {pk}

Surname char(25) NOT NULL (Surname > 0)

Forneame char(25) NOT NULL CHECK (Forename > 0)

Town char(10)

County char(20)

DOB date NOT NULL

mobile char(15) NOT NULL

)

**Repairs** (

repairid int(10) not null auto\_increment {pk}

Description varchar(250) NOT NULL check (description>0)

Device char(25) NOT NULL

Colour char(15) NOT NULL

Brand char(25) NOT NULL

Model char(25) NOT NULL

Prob\_Type char(25) NOT NULL

Repair\_Date date NOT NULL

Collection\_Date date

Status char(15) NOT NULL

)

**Estimate** (

Est\_Id int(10) NOT NULL auto\_increment {pk}

EstDate date NOT NULL

Total int(25)

}

**Inventory** (

Invid int(10) not null auto\_increment

Name char(25) not null

Description char(25) not null

Quantity int(10)

Conditon char(5)

)