Changes types for Geolocation to POINT

1NF – Looked for connections between everything. Saw how it related. Found the PK. Only 1

* Removed calculated data. All the true and false stuff

Original linked everything to a bridging table (WorkOrder) by referencing the test’s PK. Late on found that would be almost impossible to do (When I created the database in MySQL). Switch it so the test’s referenced the WorkOrder (Via FK). This linked them up in more efficient way.

Condensed things. Original split everything into too many tables. Location, Bluetooth device, Test for each signal, a threshold table for each signal. Later found that was a bad way. Reduced size and reduce complexity.

Entering data, found that I was referring to TestingDevice’s PK by TestingDeviceID in WorkOrder. Wasn’t consistent due to TestingDevice’s PK was DeviceSerialNo. Changed this to DeviceSerialNo to make it consistent.

Changed database/diagram/normalisation when new information arose. Split device up to a signal tester and a testing device (iPad).

# Design Process:

The design process started with analysing the log files and attempting to find correlations between all the data within.

# Entities:

## WorkOrder

This is a table that links all the testing data (Vodafone/Telstra signal results, etc) with the data that is/potentially reused (Employees, testing devices like iPads, and the minimum thresholds need to pass the test).

WorkOrderNo: Varchar(11)

Each job consisted of a unique identifier referred to as Work Order (e.g.: “WO-00251301”). Due to it being unique for every job it became the primary key for the WorkOrder table. Referred to as “WorkOrderNo”.

TheDate: DateTime

The date was stored in the table under the name “theDate”. Date is a reserved name so could not be used. Even data is entered, it should be entered with a data formatter to ensure it becomes a DateTime entity.

Example:

DATE\_FORMAT(STR\_TO\_DATE("1-5-2018--8-5", "%d-%m-%Y--%H-%i"),'%Y-%m-%d %H:%i')

## TestingDevice

## SignalTester

## Threshold

## Employee

## VodafoneBladeTest

## VodafoneWhipTest

## TelstraBladeTest

## TelstraWhipTest

## ExternalModemTest