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**IT5x82**

**Fundamentals of Data Models and Databases**

**Level 5**

**Assignment Two**

**Create Database**

**Semester 2 2017**

**George Tongariro**

**Assignment Two**

**Aim**

To introduce students to the concepts of data models and databases

**Learning Outcomes**

By the end of this Assignment you will create a report to the client on their database requirements using the following:

1. Build a simple database that includes tables, columns, primary keys, foreign keys and simple queries.

**Assignment Due: 3 Nov 2017**

**You are to create the database from the scenario below**

**Scenario**

Tongariro Garage (2017) Ltd is a small independent garage who is wanting to upgrade it’s IT capability by storing some of its information in a SQL Database. At present a Requirements Report was done in Assignment One. Based on the requirements report you are to create the following

1. Create Database for Tongariro Garages
2. Create Tables Clients, Vehicles, Servicing with appropriate Primary and Foreign Keys
3. Insert Data into Tables at least 5 records in each Table (**ensure some of your data can be used to create Select Statement criteria)**
4. Create a Select All statement for each Table
5. Create a Select statement for all vehicles who have had a WOF service from the last 3 months.
6. Create a Select statement for all Clients who are Priority customers who have had 3 or more services
7. Update Customer details of one of your Customers to Joanna Bloggs (**Ensure you show before table, Update Command and After Table)**
8. Delete a Vehicle from the Vehicle Table where an owner has two Vehicles
9. Drop the Database command

**Marking Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement** | **Criteria** | **Mark Out of** | **Your Mark** |
| Create Database for Tongariro Garages | Correct command | 1 Mark |  |
| Create Tables Clients, Vehicles, Servicing with appropriate Primary and Foreign Keys | 1. Correct commands 2. All three tables correct,  3. Correct Primary and Foreign keys created | 10 Marks |  |
| Insert Data into Tables at least 5 records in each Table (**ensure some of your data can be used to create Select Statement criteria)** | Correct commands,  At least five records per table | 15 Marks |  |
| Create a Select All statement for each Table | Correct commands Shows all three tables with correct data | 20 Marks |  |
| Create a Select statement for all vehicles who have had a WOF service from the last 3 months. | Correct command  1. Before command view  2. Command  3. After command view | 5 Marks |  |
| Create a Select statement for all Clients who are Priority customers who have had 3 or more services | Correct command  1. Before command view  2. Command  3. After command view | 5 Marks |  |
| Update Customer details of one of your Customers to Joanna Bloggs | Correct command  1. Before command view  2. Command  3. After command view | 4 Marks |  |
| Delete a Vehicle from the Vehicle Table where an owner has two Vehicles | Correct command  1. Before command view  2. Command  3. After command view | 4 Marks |  |
| Alter Service Table by deleting priority customer Column | Correct command  1. Before command view  2. Command  3. After command view | 4 Marks |  |
| Drop the Database command | Correct command | 2 Mark |  |
| **Total** | | **70 Marks** |  |

