**Database Design Coursework Template**

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**Scenario Topic Name**: Tech Repair Shop

**Scenario**

The Custom Computer Company is a business that diagnoses and repairs customer desktops and laptops. Employees have their own company ID number, email, as well as the date they started working. Customer information is kept including their email, phone number and name, as well as their support number, which tells the technician which device needs fixing. The support number states the device ID, problem notes as well as its current status. The device can be a desktop or laptop, have different operating systems and have a different CPU and GPU manufacturer. A support problem can be taken on by multiple technicians at a time, but each technician can only work on one problem at a time.

**Example queries** (Minimum 5 – list, who, which, how many, most, fewest etc. - check that your models have the attributes needed to answer the queries)

**Entity Relationship Model** (insert a jpg image of your model exported from Visual Paradigm in the space below).

Insert your jpg image here

**Relational Model Tables**

* Copy and paste the table below for as many relational tables as you need
* Replace the placeholder names (table-name1, attribute-name5 etc) with the table and attribute names you derived from your ER model
* List primary key attributes first
* Add new rows to the tables (in the correct place) as needed
* Delete any unnecessary rows (attribute rows and foreign key rows if not used)
* Primary keys are to be specified in the format PRIMARY KEY (attribute-name1, attribute-name2, etc)
* Foreign keys are to be specified in the format ‘FOREIGN KEY (attribute-name) REFERENCES table-name (attribute-name)

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** table-name1 |  |
| **Attributes** |  |
| attribute-name1 |  |
| attribute-name2 |  |
| attribute-name3 |  |
| attribute-name4 |  |
| etc |  |
| **PRIMARY KEY** (attribute-name1, attribute-name2, etc) |  |
| **FOREIGN KEY** (attribute-name3) REFERENCES table-name2 (attribute-name67) |  |
| **FOREIGN KEY** (attribute-name4) REFERENCES table-name5 (attribute-name129) |  |
| etc |  |

Insert additional tables here……..

**Marker’s Comments** (Do not write in this section)

**Important:** Please note that marker’s corrections to your relational tables are there to help you construct a working database for the second coursework. They are not the determinant of your mark. For more information on how your work is assessed see the coursework specification and grade related criteria.

**Coursework Mark** (100 marks available):