**Database Design Coursework Template**

Student Name: Yusuf Ahmed

Student ID: 240013970

Student Number: 240013970

**Scenario Topic Name:** Gaming Tournament

**Scenario**: Each team has an assigned room. Each gamer has their own setup which is unique and kept in a service room until used. This needs to be kept track of with an ID system, and a roomNo system. All rooms are uniquely numbered and have a color-coded name given (Green 45, Blue 45 are two different rooms). A team has many gamers and one gamer has a team. Teams have a unique ID and also have a rating from 0 to 5, as well as team size recorded. Qualifying teams are recorded to form new matches. Team leader is a gamer of the team. Attendees enter their information when signing up; name, phone number, email and address. All attendees have to be either a gamer or team leader when we begin the tournament. Attendees who are in a team, as either a team leader or gamer have a gamertag and a team. Each active gamer is given a code for all rooms entry, apart from service rooms, which tells management what time, and who entered a room. Team leaders have a lockout code, which is separate to their entry code, to lock a given room.

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

Is teamID 12313 still qualifying?

Is team available?

List all team leader gamers

Which room is gamertag “FooBar1234” allocated to?

Is “FooBar1234” in team leader table?

**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):