**Database Design Coursework Template**

Student Name: Khalid Takar

Student ID: adck813

Student Number: 210022288

**Scenario Topic Name** (CHAMPIONS LEAGUE)

**Scenario** (100 words maximum)

The database stores details of Champions League groups and all the key entities such as Teams, Players, Fitness, Player stats and stadiums where all of them have primary keys except player stats which have a one-to-one relationship with players. Teams have the most complex relationship with a many to many with Groups and a one to many with players whereas players have the most relationships links with fitness, player stats and with teams.

Both teams and players are a subclass of the entity sponsorships.

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

1) Who won the Champions League?

2) Which stadium has the Highest Capacity?

3) Who Topped Group E?

4) How many teams are in the UK?

5) which player is injured for 6 months?

6) what is Players ID (04) number of Appearances and expected goals?

7) how much brand exposure did the sponsor receive?

Diagram

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

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Teams |  |
| **Attributes** |  |
| Team\_Name |  |
| Team Placements |  |
| Top Scorer |  |
| Top Assister |  |
| Squad Size |  |
| Kit number |  |
| Club size |  |
| Club earnings |  |
| Club Exposure |  |
| **PRIMARY KEY** (Team ID) |  |
| **FOREIGN KEY** (sponsorshipsplayer sponsor ID) REFERENCES sponsorships(player sponsor ID) |  |
| **FOREIGN KEY** (sponsorshipsTeam sponsor ID) REFERENCES sponsorships(Team sponsor ID) |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Players |  |
| **Attributes** |  |
| Players Name |  |
| Players Age |  |
| Players Nationality |  |
| Salary |  |
| Players brand image |  |
| **PRIMARY KEY** (Players ID) |  |
| **FOREIGN KEY** (sponsorshipsplayer sponsor ID) REFERENCES sponsorships (player sponsor ID) |  |
| **FOREIGN KEY** (sponsorshipsTeam sponsor ID) REFERENCES sponsorships(Team sponsor ID) |  |
| **FOREIGN KEY** (Team ID) |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Player Stats |  |
| **Attributes** |  |
| Goals |  |
| Assists |  |
| xG (Expected Goals) |  |
| xA (Expected Assists) |  |
| Appearances |  |
| Clean Sheets |  |
| Trophies |  |
| **FOREIGN KEY** Players ID |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Fitness |  |
| **Attributes** |  |
| Injury description |  |
| Injury timeline |  |
| Injury history |  |
| **PRIMARY KEY** Patient ID |  |
| **FOREIGN KEY** Players ID |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** stadiums |  |
| **Attributes** |  |
| Location |  |
| Capacity |  |
| **PRIMARY KEY** Stadium Name |  |
| **FOREIGN KEY** Team ID |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** sponsorships |  |
| **Attributes** |  |
| Budget |  |
| Brand exposure |  |
| Brand image |  |
| **PRIMARY KEY** player sponsor ID |  |
| **PRIMARY KEY** Team sponsor ID |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Groups |  |
| **Attributes** |  |
| Group placement |  |
| Group points |  |
| Group Letters |  |
| **PRIMARY KEY** (Group ID) |  |

**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):