**Database Design Coursework Template**

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**Scenario Topic Name:** Birthday Party

**Scenario:** (100 words maximum)

You are a company that organises birthday parties.

Parties(partyID) will a venue which will have a Location, Date of Party and Start and End time of Party.

Parties will require having guests over using invitations, and catering for the food. Guests will have names(GuestID too), food preferences, drink preferences and date of birth. Catering will have caterers(each with a name and CatererID).

Each party is hosted at a party venue. Multiple guests can be assigned to one venue and multiple caterers can be assigned to multiple birthday parties.

Only the host starts birthday activities (Event) and many guests can participate.

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

* Which birthday party(Party ID) happened at 19:00 on the 8th of November 2024?
* What are the names of the caterers which were in charge of handing out appetisers on the far left of the venue?
* What is the birthday of the party host which celebrated their party on the 6th of October and spent £2,000 on the party?
* List the GuestIDs and names of each person who has received an invitation to the birthday party which happened at 09:00.
* List the names of the guests which participated in the musical chairs birthday activity which was hosted by the party host named John.
* What are the IDs of the caterers that were previously stationed at the party avenue on Johns street 169 and were chefs for the party?

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

A diagram of a computer

Description automatically generated

**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 |  |
| **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) |  |

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| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Birthday Party |  |
| **Attributes** |  |
| Time |  |
| Budget |  |
| Date |  |
| **PRIMARY KEY** (Party ID) |  |

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| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Party Host |  |
| **Attributes** |  |
| Name |  |
| Birthday |  |
| Date of Birth |  |
| **PRIMARY KEY** (Host ID) |  |
| **FOREIGN KEY** (Party ID) REFERENCES Birthday Party (Party ID) |  |

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| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Caterer |  |
| **Attributes** |  |
| Name |  |
| Role |  |
| Area of venue covered |  |
| **PRIMARY KEY** (Caterer ID) |  |
| **FOREIGN KEY** (CatererCaterer ID) REFERENCES Caterer (Caterer ID) |  |
| **FOREIGN KEY** (CatererBirthday PartyParty ID) REFERENCES Birthday Party (Party ID) |  |
| **FOREIGN KEY** (Address) REFERENCES Party Venue (Address) |  |
| **FOREIGN KEY** (CatererBirthday PartyParty ID) REFERENCES Birthday Party (Party ID) |  |
|  |  |

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| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Party Venue |  |
| **Attributes** |  |
| Location |  |
| **PRIMARY KEY** (Address) |  |
| **FOREIGN KEY** (HostID) REFERENCES Party Host (HostID) |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Birthday Activity |  |
| **Attributes** |  |
| Activity Name |  |
| Time |  |
| **PRIMARY KEY** (Activity ID) |  |
| **FOREIGN KEY** (HostID) REFERENCES Party Host (HostID) |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Invitation |  |
| **Attributes** |  |
| Date of party |  |
| Time of party |  |
| Description |  |
| **PRIMARY KEY** (Invitation ID) |  |
| **FOREIGN KEY** (HostID) REFERENCES Party Host (HostID) |  |

|  |  |
| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Guest |  |
| **Attributes** |  |
| Name |  |
| Date of Birth |  |
| **PRIMARY KEY** (GuestID) |  |
| **FOREIGN KEY** (Address) REFERENCES Party Venue (Address) |  |
| **FOREIGN KEY** (Invitation ID) REFERENCES Invitation (Invitation ID) |  |

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| --- | --- |
| **Relational table specification** | **Marker’s corrections (Do not write in this column)** |
| **Table name:** Guest\_Birthday Activity |  |
| **Attributes** |  |
| **FOREIGN KEY** (GuestGuestID) REFERENCES Guest (Guest ID) |  |
| **FOREIGN KEY** (Birthday ActivityActivity ID) REFERENCES Birthday Activity (Activity ID) |  |
| **FOREIGN KEY** (Birthday ActivityHostID) REFERENCES Birthday Activity (HostID) |  |

**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):