Database Analysis Worksheet

# Step 1: Identify Entities, Attributes, and Primary Keys

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity |  | Attributes |  | Primary Key |
| Users | email,  forgot\_pass, | first\_name, last\_name, password, verify\_code |  | user\_id |
| Pitchers | (team\_id), pf\_name, | pl\_name, p\_avatar, p\_description, p\_stats, p\_pam |  | pitcher\_id |
| Teams | team\_name, team\_logo |  |  | team\_id |
| Tracked | (team\_id), (pitcher\_id) |  |  | Tracked\_id |

# Step 2: Define Relationships Between the Entities

|  |  |  |  |
| --- | --- | --- | --- |
| Entity 1 | Entity 2 | How Related?  (2 sentences) | Relationship Type (1:1, 1:N, M:N) |
| Users | Tracked | Many users can have many tracked players  Many tracked players belong to more than one user | M:N |
| Team | Pitchers | A team can have many pitchers  A pitcher belongs to one team | 1:N |
|  |  |  | --- |
|  |  |  |  |
|  |  |  |  |

# Step 3: Draw your Entity-Relationship Diagram (Hand-drawn is okay!!!)

N

N

Tracked

M

M

1

N

Users

Pitchers

Teams

# Step 4: Specify Tables, Fields, and Data Types

Fill out a chart for each table to be included in the database. YOU MAY NEED MORE TABLES THAN THERE ARE HERE. The ones here are just to get you started. Mark the primary key with a double asterisk (\*\*). Mark any foreign keys with the letters “fk” in parentheses, (fk).

Name of 1st Table: \_\_Users\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Field Name | Data Type |
| First Name | String |
| Last Name | String |
| Email | String |
| Password | String |
| Verify Code | Integer |

Name of 2nd Table: \_\_Teams\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Field Name | Data Type |
| Team Name | String |
| Team Logo | Image |

Name of 3rd Table: \_\_Pitchers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Field Name | Data Type |
| First Name | String |
| Last Name | String |
| Avatar | Image |
| Description | String |
| Stats | Integer |
| PAM | Integer |
| Tracking | Boolean |