# ER diagram

# Data Dictionary

**List of entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Entities** | **Entity Type** | **Primary Key** | **# Attributes** |
| Users | independent | UserID | 2 |
| UserProfile | independent | Email\_Address | 4 |
| CafeStore | independent | StoreID | 3 |
| Schedule | dependent | StoreID | 8 |
| StoreRating | dependent | UserID, StoreID | 5 |
| Photos | independent | PhotoID | 5 |
| FavouriteStore | dependent | UserID, StoreID | 2 |
| UserFavouriteStoreHistory | independent | HistoryID | 5 |
| Cafe\_Location | dependent | Address | 3 |
| DrinkList | independent | DrinkID | 2 |
| Menu | dependent | StoreID, DrinkID | 3 |
| Favorite\_Drink | independent | Time, UserID | 3 |
| Relationship | dependent | UserID, FollowedUserID | 2 |
| FollowHistory | independent | HistoryID | 5 |
| Post | independent | PostID | 5 |
| Comment | independent | CommentID | 5 |
| News | independent | NewsID | 5 |
| UserLikePost | dependent | UserID, PostID | 2 |
| UserLikeNews | dependent | UserID, NewsID | 2 |
| Checkin | independent | CheckinID | 5 |
| LocationRecord | dependent | UserID, StoreID | 3 |

**Entity ‘Follow\_History’**

**Description**

Apart from the associative entity named “Relationship” that only writes down information about one user followed another, by referring two UserIDs as foreign keys from the table User, Follow\_History also provides HistoryID to ensure uniqueness of this many-to-many relationship entity, and other two attributes to record when a user follow or unfollow other users.

**Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Attribute** | **Data Type** | **Not Null** | **Unique** | **Description** |
| PK | HistoryID | Integer | YES | YES | This is the only primary key of the entity Follow\_History, recording the sequence number that can be uniquely identified. One user may follow or unfollow another user several times, so an identifier is needed to keep record of each operation in order to eliminate duplicates. |
| FK | UserID | Integer | YES | NO | A foreign-key, coming from the entity User, and representing one of the followers(or no longer followers) of a particular user. |
| FK | Followed\_UserID | Integer | YES | NO | A foreign-key, also coming from User entity, recording which user is now followed or unfollowed by other users. |
|  | Status | Enum(“Follow”,”Unfollow”) | YES | NO | An enumerate-type value which can be chosen only from “Follow” or “Unfollow”, recording the current relationship status between two users. |
|  | DateTime | DateTime | YES | NO | The datetime (YYYY:MM:DD:hh:mm:ss) about when a user follow or unfollow another user. |