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CS 401

HW 5 - DB Tables

Description of Dank Jisho's Database Tables

All tables are being placed in the `DankJisho` database.

Users Table

Will hold user login information.

```
CREATE TABLE Users (
    ID INT NOT NULL AUTO_INCREMENT,
    Email VARCHAR(256) NOT NULL UNIQUE,
    UserName VARCHAR(256) NOT NULL UNIQUE,
    Password VARCHAR(64) NOT NULL,
    PRIMARY KEY(ID)
);
```

After creating the table, I felt that it would be nice to know the time/date that a user registered on.

```
alter table Users
add column DateRegistered  DATETIME default CURRENT_TIMESTAMP
after Password;
```

select * from Users;

```
+----+----------------+----------+----------+------------------------------------------+
| ID | Email          | UserName | Password | DateRegistered                           |
+----+----------------+----------+----------+------------------------------------------+
| 1  | test@test.com  | tester   | dank     | Tue Feb 26 2019 22:43:26 GMT-0700 (MST)  |
| 2  | test2@test.com | 2tester  | dank     | Tue Feb 26 2019 22:43:26 GMT-0700 (MST)  |
+----+----------------+----------+----------+------------------------------------------+
```

Definitions Table

Will hold basic information about user's saved definition history. This data will be used to re-search a word using the search API.

```
CREATE TABLE DefinitionHistory (
    ID INT NOT NULL auto_increment,
    UserID INT,
    FOREIGN KEY (UserID) REFERENCES Users(ID),
    TS datetime default current_timestamp,
    Japanese VARCHAR(1024) not null,
    English VARCHAR(1024),
    EngToJap BOOLEAN default 1, -- this will determine what direction was searched English -> Japanese
    PRIMARY KEY (ID)
);
```

select * from DefinitionHistory;

```
+----+--------+------------------------------------------+----------+---------+----------+
| ID | UserID | TS                                       | Japanese | English | EngToJap |
+----+--------+------------------------------------------+----------+---------+----------+
| 1  | 1      | Tue Feb 26 2019 01:15:15 GMT-0700 (MST)  | テスト    | test    | 0        |
```

```
| 2   | 1       | Tue Feb 26 2019 01:15:15 GMT-0700 (MST) | dank      | デーンク    | 1        |       |
+----+--------+-----------------------------------------+----------+--------+----------+
```

Forum Posts Table

Will hold user submitted forum posts.

```sql
CREATE TABLE ForumPosts (
    ID INT NOT NULL AUTO_INCREMENT,
    UserID INT,
    FOREIGN KEY (UserID) REFERENCES Users(ID),
    Title VARCHAR(1024) NOT NULL,
    Post VARCHAR(1024),
    ImgFile VARCHAR (512),
    SubmissionTime DATETIME DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY (ID)
);
```

select * from ForumPosts;

```
+----+--------+----------------------------------+-----------------------------------------------------------+---------+------------
----------------------------+
| ID | UserID | Title                            | Post                                                      | ImgFile |
SubmissionTime                    |
+----+--------+----------------------------------+-----------------------------------------------------------+---------+------------
----------------------------+
| 1  | 1       | How to say dank?                | I just wanna express my self                              | null    | Tue Feb 26
2019 01:39:28 GMT-0700 (MST) |
| 2  | 2       | 何ぜアメリカ人はハンバーガーの事が好きすぎますか？ | ハンバーガーの味が美味しいけど、自分の健康に気にしていますね。ア
メリカ人は気にしないですか？ | null    | Tue Feb 26 2019 22:52:26 GMT-0700 (MST) |
```

```
+---+--------+-----------------------------+-------------------------------------------------+--------+-----------
-----------------------------+
```

Comments Table

> Will hold user submitted comments. These comments could reference comments on other areas of the site, not just forum posts.

```
CREATE TABLE Comments(
    ID INT NOT NULL AUTO_INCREMENT,
    UserID INT,
    FOREIGN KEY (UserID) REFERENCES Users(ID),
    ParentID INT,
    FOREIGN KEY (ParentID) REFERENCES ForumPosts (ID),
    /* Title VARCHAR(1024) NOT NULL, */
    Post VARCHAR(1024),
    ImgFile VARCHAR (512),
    SubmissionTime DATETIME DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY (ID)
);
```

> select * from Comments;

```
+----+--------+----------+-----------------------------------------------------------------+--------+----------
-------------------------------+
| ID | UserID | ParentID | Post                                                            | ImgFile |
SubmissionTime                  |
+----+--------+----------+-----------------------------------------------------------------+--------+----------
-------------------------------+
| 1  | 2      | 1        | Danks is such an American idea so you have to use katakana: デーンク | null    | Tue Feb
26 2019 01:43:01 GMT-0700 (MST) |
```

```
+----+--------+----------+-----------------------------------------------------------------------------+---------+----------------
----------------------------+
```

Forum Table

Will represent the entire forums itself. Will hold forum posts.

```
create table Forum(
    ID int not null auto_increment,
    TopicID int,
    foreign key (TopicID) references ForumPosts (ID),
    primary key (ID)
);
```

select * from Forum;

```
+----+---------+
| ID | TopicID |
+----+---------+
| 1  | 1       |
| 2  | 2       |
+----+---------+
```