Lucas Saucer

October 25, 2023

Web and Database Development

Table Creation Document

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1.   User

mysql> CREATE TABLE IF NOT EXISTS user (

->   account_id INT NOT NULL UNIQUE AUTO_INCREMENT,

->   username VARCHAR(64) NOT NULL UNIQUE,

->   password VARCHAR(64) NOT NULL,

->   email VARCHAR(255) NOT NULL UNIQUE,

->   CONSTRAINT account_pk PRIMARY KEY(account_id),

->);

2.   Post

mysql> CREATE TABLE IF NOT EXISTS post (

->   post_id INT NOT NULL UNIQUE AUTO_INCREMENT,

->   account_id INT NOT NULL,

->   repository_id INT,

->   tag_id INT,

->   attachment_id INT,

->   title VARCHAR(64) NOT NULL,

```
->      post_content STRING NOT NULL,

->      url_links VARCHAR(255),

->      time_stamp STRING NOT NULL,

->      CONSTRAINT post_pk PRIMARY KEY(post_id),

->      CONSTRAINT account_fk_post FOREIGN KEY(account_id) REFERENCES
        user(account_id),

->      CONSTRAINT repository_fk_post FOREIGN KEY(repository_id)
        REFERENCES repository(repository_id),

->      CONSTRAINT tag_fk_post FOREIGN KEY(tag_id) REFERENCES
        tags(tag_id),

->      CONSTRAINT attachment_fk_post FOREIGN KEY(attachment_id)
        REFERENCES attachments(attachment_id),

-> );
```

3.   Repository

```
mysql> CREATE TABLE IF NOT EXISTS repository (

->      repository_id INTEGER NOT NULL UNIQUE AUTO_INCREMENT,

->      account_id INTEGER NOT NULL,

->      post_id INTEGER,

->      tag_id INTEGER,

->      category_id INTEGER,

->      title VARCHAR(64) NOT NULL,

->      time_stamp BLOB NOT NULL,
```

```
       ->        CONSTRAINT repository_pk PRIMARY KEY(repository_id),

       ->        CONSTRAINT account_fk_repository FOREIGN KEY(account_id)

                 REFERENCES user(account_id),

       ->        CONSTRAINT post_fk_repository FOREIGN KEY(post_id) REFERENCES

                 post(post_id),

       ->        CONSTRAINT tag_fk_repository FOREIGN KEY(tag_id) REFERENCES

                 tags(tag_id),

       -> );
```

4.   Attachments

```
mysql> CREATE TABLE IF NOT EXISTS attachments (

       ->        attachment_id INT NOT NULL UNIQUE AUTO_INCREMENT,

       ->        file_name VARCHAR(255) NOT NULL,

       ->        file_path VARCHAR(255) NOT NULL,

       ->        file_type VARCHAR(64) NOT NULL,

       ->        file_size INT NOT NULL,

       ->        CONSTRAINT attachment_pk PRIMARY KEY(attachment_id),

       -> );
```

5.   Tags

```
mysql> CREATE TABLE IF NOT EXISTS tags (

       ->        tag_id INT NOT NULL UNIQUE AUTO_INCREMENT,

       ->        name VARCHAR(255) NOT NULL,
```

```
    ->      CONSTRAINT tag_pk PRIMARY KEY(tag_id),

    -> );
```

6.   Category

```
mysql> CREATE TABLE IF NOT EXISTS category (

    ->      category_id INT NOT NULL UNIQUE AUTO_INCREMENT,

    ->      name VARCHAR(255) NOT NULL,

    ->      description BLOB,

    ->      CONSTRAINT category_pk PRIMARY KEY(category_id),

    -> );
```