

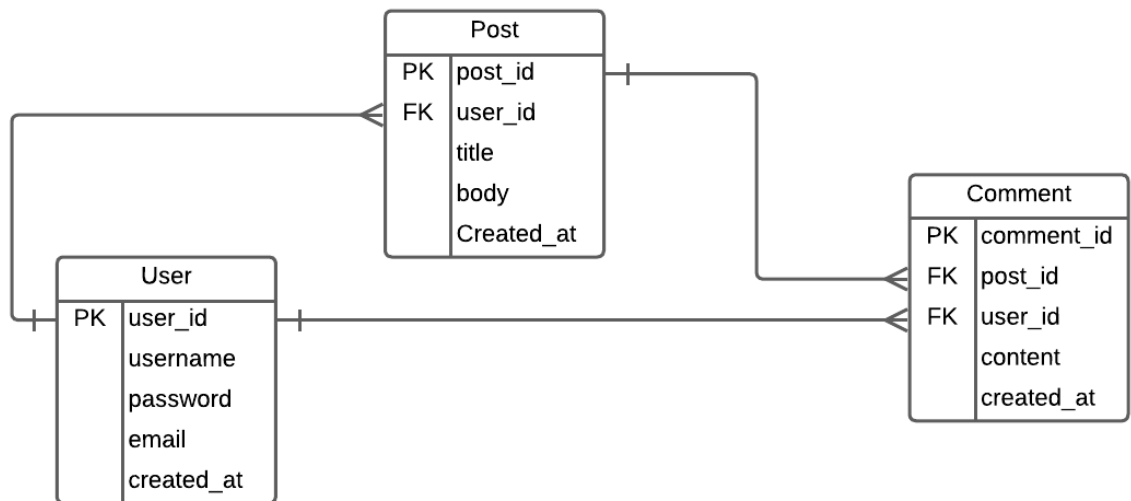
# Ndivhuho Maliavusa

## FNB Developer Assignment

### Database and SQL

#### 1. Database design

ERD



```
IF NOT EXISTS (SELECT * FROM sys.databases WHERE name = 'DevHub')
```

```
BEGIN
```

```
    CREATE DATABASE DevHub;
```

```
END
```

```
GO
```

```
USE DevHub;
```

```
GO
```

```
CREATE TABLE Users (
```

```
    user_id INT PRIMARY KEY IDENTITY(1,1),
```

```
    username VARCHAR(50) UNIQUE NOT NULL,
```

```
    password VARCHAR(255) NOT NULL,
```

```
    email VARCHAR(100) UNIQUE NOT NULL,
```

```
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP
```

```
);
```

```
CREATE TABLE Posts (  
    post_id INT PRIMARY KEY IDENTITY(1,1),  
    user_id INT,  
    title VARCHAR(255) NOT NULL,  
    body TEXT NOT NULL,  
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE CASCADE  
);
```

```
CREATE TABLE Comments (  
    comment_id INT PRIMARY KEY IDENTITY(1,1),  
    post_id INT,  
    user_id INT,  
    content TEXT NOT NULL,  
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (post_id) REFERENCES Posts(post_id) ON DELETE CASCADE,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id)  
);
```

## 2. SQL Queries

```
SELECT title, body  
FROM Posts  
WHERE user_id = 1
```