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Milestone 4

Q: Select your DBMS software.

A: Heroku with Postgresql

Q: Create your database and populate it with ample data necessary to conduct initial program testing.

A:

```
CREATE TABLE users (
      id int,
      Username varchar(40),
      Password varchar(40),
      Fullname varchar(40),
      PRIMARY KEY (id)
 );

CREATE TABLE tasks (
      id int,
      TaskName varchar(40),
      DueDate timestamp,
      Complete int
 );
```

Q: Creating and populating the database should be done using sql (or other notation/language such as XML or JSON) scripts. These scripts should be included in your github repository.

A:

```
      INSERT INTO users (id, Username, Password, Fullname)
      VALUES (00001, 'daviddryja', 'password123', 'David Dryja');
```

```sql
INSERT INTO users (id, Username, Password, Fullname)
VALUES (00002, 'juliushenkin', 'abc123', 'Julius Henkin');

INSERT INTO users (id, Username, Password, Fullname)
VALUES (00003, 'warrenpayne', 'password', 'Warren Payne');

INSERT INTO users (id, Username, Password, Fullname)
VALUES (00004, 'brycedesbrisay', 'passw0rd', 'Bryce Desbrisay');


INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00001, 'walk', '2019-01-01 05:05:05', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00001, 'talk', '2019-01-01 05:05:0', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00002, 'drive', '2020-01-01 05:05:05', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00002, 'swim', '2021-01-22 05:05:05', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00003, 'jump', '2022-01-01 05:05:05', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00003, 'dive', '2023-01-01-24 05:05:05', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00004, 'run', '2025-01-01 05:05:05', 0);

INSERT INTO tasks (id, TaskName, DueDate, Complete)
VALUES (00004, 'sayhello', '2026-01-01 05:05:05', 0);
```

Create a document that visually depicts the contents and structure of your database. For example, an entity relationship diagram showing all database tables, attributes, primary keys, foreign keys and relationships between tables.

If your database is NOT relational, you still must provide a visual depiction of the data entities and attributes required for your app.

A:
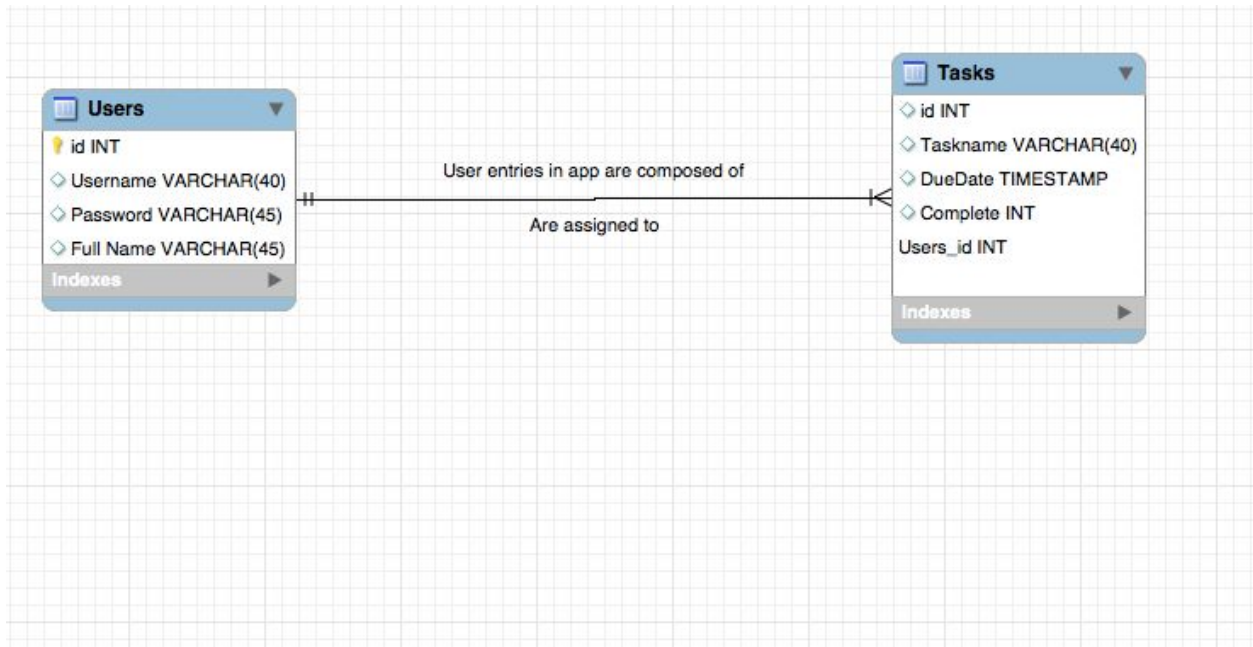
Users Table example:

ID (Primary Key)	Username	Password	Full Name
1234	daviddryja	password	David Dryja

Tasks Table Example:

ID	Name of Task	Due Date	Completed? (Y/N)
1234	Eat	11-30-2018	1