*Stage Va*
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**Stage Va Deliverables:**

Submit on the VM

- The schema created in PostgreSQL, and the tables populated with data.
- Your in-class project demonstration satisfies this deliverable.

Submit on GitHub

- Text files with the DDL and DML population commands (submitted with .sql extension).
- Scripts used to obtain and format data and populate tables.
- Data files.
- Terminal session files that demonstrate successful execution of the queries, e.g. using Linux command script(1).
- Text files with the DML queries (submitted with .sql extension).
- Documents for previous stages updated if applicable.
- Project milestones and issues created and/or updated (in the Stage IIb repository, as noted above).

**Procedure**

1) Create the tables/Schema necessary for our project
    a) Use the ER diagram for help
    b) Find PSQL commands in textbook or online

2) Insert the data from the website
    a) Use the commands we generated from the last assignment
        i) https://www.google.com/url?q=https://docs.google.com/document/d/1echQmJ8WlSr7KCZoaMNOFaaMCgwDTqbf_iCex0SykBQ/edit&sa=D&source=editors&ust=1618156144695000&usg=AOvVaw3QAelSl0frsjFaftwmLnkq
    b) Website link: https://www.google.com/url?q=https://archive.org/details/trentoniana&sa=D&source=editors&ust=1618161706725000&usg=AOvVaw0wNYBto2-jh1TYLWI5BQGB
3) Demonstrate that our commands to retrieve, update, insert, view items work

**Instances:**

Audio: 3
Transcripts: 3
Users: 3

*Create 2 tables containing all the information we need, one for user and one for entry*

User: UserNo, firstName, lastName, access

Entry: EntryNo, entryType, fileName, date, link

**DDL Operations: (Data Definition Language)**

```
CREATE TABLE entries (
        entryNo Serial PRIMARY KEY,
        entryType varchar (60)
        entryName varchar (60)
        entryLink varchar (60)
        Date DATE
);

CREATE TABLE users (
        userID serial PRIMARY KEY,
        firstName varchar (30),
        lastName varchar (30),
        access varchar (30)
);
```

**Create a spreadsheet with the information from the website (3 users, 3 audio files, 3 transcripts) - writing the CSV files into TABLE users & TABLE entries:**

```
COPY users(
        userID,
        firstName,
        lastName,
        access)
FROM '/home/lion/UserInfo.csv'
DELIMITER ',' CSV HEADER;
```

| userID | firstName | lastName | access |
|---|---|---|---|
| 1234 | John | O'Brien | SuperUser |
| 5678 | Kiera | Gill | SuperUser |
| 69420 | Roman | Rychkov | User |

```
COPY entries(
        entryNo,
        entryType,
        entryName,
        entryLink,
        date)
FROM '/home/lion/EntryInfo.csv'
DELIMITER ','CSV HEADER;
```

| entryNc | entryType | entryName | entryLink | date |
|---|---|---|---|---|
| 1 | Audio | Rosenthal, Minerva AUDIO | archive.org/details/JHS0 | 1996-10-29 |
| 2 | Transcript | Rosenthal, Minerva TRANSCRIPT | BLZMOSTMxjT2YVX7Nt | 1996-10-29 |
| 3 | Audio | Klatzkin, Joe & Ida AUDIO | archive.org/details/JHS0 | 1988-06-08 |
| 4 | Transcript | Klatzkin, Joe & Ida TRANSCRIPT | /xUQ7rS_m0J8uH-aJNx | 1988-06-08 |
| 5 | Audio | Finkle, Herman "Humpsy" AUDIO | archive.org/details/JHS1 | 1995-04-17 |
| 6 | Transcript | Finkle, Herman "Humpsy" TRANSCRIPT | mHOgDkUVcXhVeTVjGa | 1995-04-17 |

**DML Queries on entries: (Data Manipulation Language)**

**Insert a new file into the system**

INSERT INTO entries VALUES (‘*entryName*’, ‘*entryType*’, ‘*entryLink*’, ‘*date*’);

**Delete a file from the system**

DELETE FROM entries WHERE (entryNo = ‘1’’)

**Update a file from system**

UPDATE entries SET dateUpload = ‘*example dateUpload*’ WHERE entryNo = ‘*example entryNo*’

**Regular Queries on entries**

**Retrieve an entry based on entryName**

SELECT * FROM entries WHERE fileName = '*example name*'

**Retrieve an entry based on date**
SELECT * FROM entries WHERE date = '*example date*';

**Display all audio files**
SELECT * FROM entries WHERE entryType = 'Audio';

**Display all transcripts**
SELECT * FROM Transcript;

**Search through results by date**
SELECT * FROM entries ORDER BY date ASC;

**DML Queries on Users: (Data Manipulation Language)**

**Add a new user to the database**
INSERT INTO users (firstname, lastname, access)
VALUES (''Sorca', 'MC', 'user');

**Remove a user**
DELETE FROM users WHERE userID = '3';

**Change the user's status**
UPDATE users SET access = admin WHERE userID = '4'

**Change the user's name**
UPDATE users SET lastName = 'Rychkova' WHERE lastName = 'Gill'

**Regular Queries on Users:**

**Search for a userID by name**
SELECT userID FROM users WHERE lastName = '*lastName*' AND firstName = 'firstName';

**Search for a access and userID by name**
SELECT access, userID FROM users WHERE lastName = '*lastName*' AND firstName = '*firstName*';

***PSQL CODE***

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```
createdb proj7

psql proj 7

CREATE TABLE users (userID serial PRIMARY KEY, firstName varchar (30), lastName
varchar (30), access varchar (30));

COPY users(userID,firstName, lastName, access)FROM '/home/lion/UserInfo.csv' DELIMITER
',' CSV HEADER;

SELECT * FROM users;

CREATE TABLE entries (entryNo Serial PRIMARY KEY, entryType varchar (60), entryName
varchar, entryLink varchar, date DATE);

COPY entries(entryNo,entryType, entryName, entryLink, date)FROM '/home/lion/EntryInfo.csv'
DELIMITER ','CSV HEADER;

SELECT * FROM entries;

DELETE FROM entries WHERE (entryNo = 1);

SELECT * FROM entries;

SELECT * FROM entries
WHERE entrytype = ‘Audio’;

UPDATE users
SET lastname = 'Rychkova'
WHERE lastname = 'Gill';

SELECT * FROM users;

INSERT INTO users
(firstname, lastname, access)
VALUES ('Sorca', 'MC', 'user');

SELECT * FROM users;
```

```
SELECT userID
FROM users
WHERE lastName = ‘Kiera’
AND firstName = ‘Gill’;
SELECT * FROM users;

SELECT access, userID
FROM users
WHERE lastName = ‘Roman’
AND firstName = ‘Rychkov’;

SELECT * FROM users;

UPDATE users
SET access = superUser
WHERE userID = 4;

SELECT * FROM users;

DELETE FROM users
WHERE userID = 3;

SELECT * FROM users;

\s work.txt
```