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CSC 315-02

Stage 5: Tables & Views

-- Setting Up DB
-- Code by Yash Dhayal

-- Tables

-- Creating Content table

```
CREATE TABLE CONTENT (  
  Content_id    SERIAL          PRIMARY KEY,  
  Author        VARCHAR(20)     NOT NULL, -- Author last name  
  Title         TEXT            NOT NULL, -- Title of content  
  Posting_date  DATE            NOT NULL, -- Date content is posted  
  Location      VARCHAR(20)     NOT NULL, -- County relevant to content  
  Category      VARCHAR(20)     NOT NULL, -- Category of the content  
  Data          TEXT            NOT NULL  -- Link to the content  
);
```

-- Creating Multimedia table

```
CREATE TABLE MM(  
  Playtime      TIME  
) INHERITS (CONTENT);
```

-- Creating Article table. Will only go into this if inserted data is considered article

```
CREATE TABLE ARTICLE(      ) INHERITS (CONTENT);
```

-- Filling tables

-- Transferring data from a CSV file to Article Table

-- THIS PATH MUST BE CHANGED TO REFLECT YOUR OWN DIRECTORY

```
COPY ARTICLE(Content_id, Author, Title, Posting_date, Location, Category, Data)  
FROM 'cab-srhub-group-10/code/postgres/data/article.csv' DELIMITER ',' CSV HEADER;
```

-- Transferring data from a CSV file to MM Table

-- THIS PATH MUST BE CHANGED TO REFLECT YOUR OWN DIRECTORY

```
COPY MM(Content_id, Author, Title, Posting_date, Location, Category, Data, playtime)
```

```
FROM 'cab-srhub-group-10/code/postgres/data/multimedia.csv' DELIMITER ',' CSV  
HEADER;
```

```
-- Views
```

```
-- PieTags view contains categories and the count of each category
```

```
CREATE VIEW PieTags AS
```

```
SELECT category, COUNT(category)
```

```
FROM CONTENT
```

```
GROUP BY category;
```

```
-- MapCats view contains counties and the count of each county
```

```
CREATE VIEW MapCats AS
```

```
SELECT location, COUNT(location)
```

```
FROM CONTENT
```

```
GROUP BY location;
```

*The following is the Content table results when invoking SELECT * FROM CONTENT; when copy and pasted directly from the terminal. Probably due to formatting issues and didn't find a fix around this.*

Content table data

content_id	author		title	
posting_date	location		category	
data				
-----+-----+-----+-----+-----				
--+-----+-----+-----+-----+-----				

1	Bill Barlow		Stuck at Home? Do Some Digging	
2020-04-07	Goshen, NJ		Ecology	
https://srhub.org/2020/04/07/stuck-at-home-do-some-digging/				
2	Bill Barlow		Offshore Wind Impact Seen In Economy As Well As	
Emissions	2020-03-03		Ocean City, NJ	Energy
https://srhub.org/2020/03/03/wind-energy-will-mean-a-lot-for-new-and-existing-local-industries/				
3	Bill Barlow		Gas up, Naturally, at MUA Site	
2020-03-01	Burleigh, NJ		Transportation	
https://srhub.org/2020/03/01/gas-up-naturally-at-mua-site/				
4	Bill Barlow		Solutions For Bayside Shore Communities Require	
Investment	2020-02-18		Strathmere, NJ	Infrastructure
https://srhub.org/2020/02/18/solutions-for-bayside-shore-communities-require-investment/				
5	Bill Barlow		NJ Program Seeks to Improve Energy Efficiency	
2020-02-11	Petersburg, NJ		Energy	
https://srhub.org/2020/02/11/nj-program-seeks-to-improve-energy-efficiency/				
6	Bill Barlow		Ocean City Hears Plan for Offshore Wind Project	
2020-02-11	Ocean City, NJ		Energy	
https://srhub.org/2020/02/11/ocean-city-hears-plans-for-offshore-wind-project/				
7	Vernon Ogrodnek		David Dichter wants to change Atlantic City and make the	
world a better place	2020-02-09		Atlantic City, NJ	Policy
https://srhub.org/2020/02/09/david-dichter-wants-to-change-atlantic-city-and-make-the-world-a-better-place/				
8	Donna Liu		Camden PowerCorps Recruits Youth to Green the City	
2019-07-02	Camden		Sustainability	

<https://www.civicstory.org/video-archive/2019/7/2/camden-powercorps-recruits-youth-to-green-the-city>

9 | Donna Liu | Hopeworks Mixes Tech and Life Skills in Camden
| 2019-01-20 | Camden | City |

<https://www.civicstory.org/video-archive/2019/1/30/hopeworks-mixes-tech-and-life-skills-in-camden>

10 | Anupam Iyer | Why Is It So Hard to Pivot to Sustainability?
| 2019-03-28 | Union | Forum |

<https://www.civicstory.org/video-archive/2019/4/29/is-growth-always-good>

| | | |
| | | |

11 | CivicStory | EXPRESS NEWARK Blends Arts & University at Heart of
City | 2018-12-03 | Essex | Art |

<https://www.civicstory.org/video-archive/2018/12/2/express-newark-places-arts-in-the-heart-of-the-city>

| | | |
| | | |

(11 rows)

*The following is the Content table results when invoking SELECT * FROM MM;
when copy and pasted directly from the terminal. Probably due to formatting issues and
didn't find a fix around this.*

MM table data

content_id	author	title	posting_date	location	category	data	playtime
8	Donna Liu	Camden PowerCorps Recruits Youth to Green the City	2019-07-02	Camden	Sustainability	https://www.civicstory.org/video-archive/2019/7/2/camden-powercorps-recruits-youth-to-green-the-city	05:56:00
9	Donna Liu	Hopeworks Mixes Tech and Life Skills in Camden	2019-01-20	Camden	City	https://www.civicstory.org/video-archive/2019/1/30/hopeworks-mixes-tech-and-life-skills-in-camden	03:18:00
10	Anupam Iyer	Why Is It So Hard to Pivot to Sustainability?	2019-03-28	Union	Forum	https://www.civicstory.org/video-archive/2019/4/29/is-growth-always-good	02:39:00
11	CivicStory	EXPRESS NEWARK Blends Arts & University at Heart of City	2018-12-03	Essex	Art	https://www.civicstory.org/video-archive/2018/12/2/express-newark-places-arts-in-the-heart-of-the-city	02:33:00

(4 rows)

*The following is the Content table results when invoking SELECT * FROM ARTICLE;
when copy and pasted directly from the terminal. Probably due to formatting issues and
didn't find a fix around this.*

Article table data

content_id	author	location	category	title	posting_date data
1	Bill Barlow	Goshen, NJ	Ecology	Stuck at Home? Do Some Digging	2020-04-07
https://srhub.org/2020/04/07/stuck-at-home-do-some-digging/					
2	Bill Barlow	Ocean City, NJ	Energy	Offshore Wind Impact Seen In Economy As Well As Emissions	2020-03-03
https://srhub.org/2020/03/03/wind-energy-will-mean-a-lot-for-new-and-existing-local-industries/					
3	Bill Barlow	Burleigh, NJ	Transportation	Gas up, Naturally, at MUA Site	2020-03-01
https://srhub.org/2020/03/01/gas-up-naturally-at-mua-site/					
4	Bill Barlow	Strathmere, NJ	Infrastructure	Solutions For Bayside Shore Communities Require Investment	2020-02-18
https://srhub.org/2020/02/18/solutions-for-bayside-shore-communities-require-investment/					
5	Bill Barlow	Petersburg, NJ	Energy	NJ Program Seeks to Improve Energy Efficiency	2020-02-11
https://srhub.org/2020/02/11/nj-program-seeks-to-improve-energy-efficiency/					
6	Bill Barlow	Ocean City, NJ	Energy	Ocean City Hears Plan for Offshore Wind Project	2020-02-11
https://srhub.org/2020/02/11/ocean-city-hears-plans-for-offshore-wind-project/					
7	Vernon Ogrodnik	Atlantic City, NJ	Policy	David Dichter wants to change Atlantic City and make the world a better place	2020-02-09
https://srhub.org/2020/02/09/david-dichter-wants-to-change-atlantic-city-and-make-the-world-a-better-place/					

(7 rows)

(END)