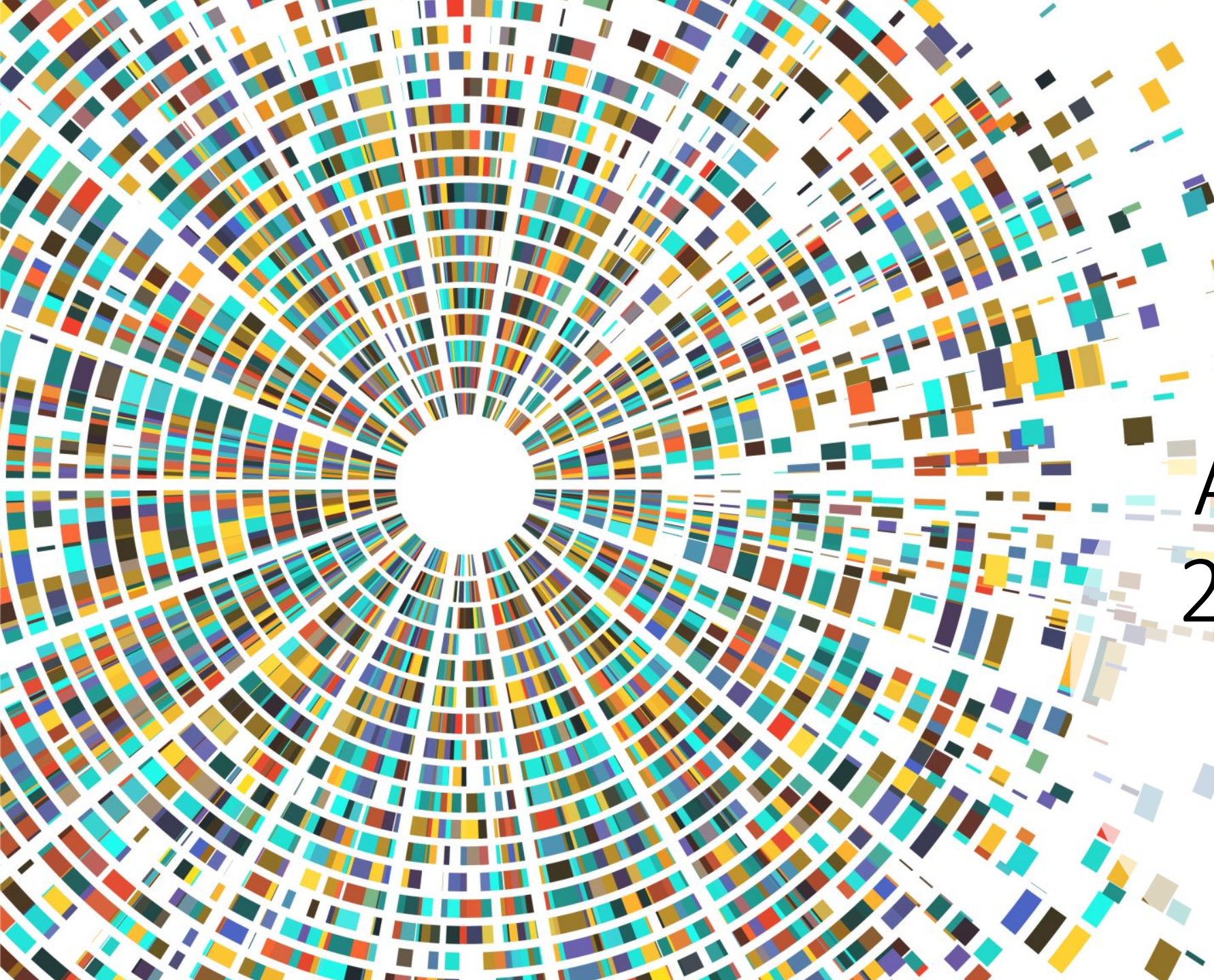

Module 4 Assignment 2 - This Is Us

BY RANDY LEON

Create a single table with 5 to 10 columns of information that you believe are most important to help answer your chosen question(s).
For each column, consider what is the best data type to use, and whether the column should allow for missing data.
Also, is there a column (or set of columns) that could be used to uniquely identify each row in the table (i.e., is a candidate for a primary key).
Provides INSERT statements that populate this table with information from at least 10 episodes.

Notifications | Messages | Data Output | Query Editor | Query History

```
CREATE TABLE

Query returned successfully
in 101 msec.
```

```sql
CREATE TABLE IMDB_ALL_EPISODES_LIST_SEASON_ONE(
   "SEASON" INT NOT NULL,
   "DATE_AIRED" DATE NOT NULL,
   "TITLE" VARCHAR(100) NOT NULL,
   "IMDB_Rating_Avg" CHAR(25),
   "#Reviews_IMDB" INT,
   "Episode_Description" CHAR(255) NOT NULL);
```

Here I made the table for all of the information from IMDB.com for Season One of *"This is Us". I made 6 columns, no primary key I thought was necessary.*

ThisIsUS/postgres@PostgreSQL 11

Notifications | Data Output | Query Editor | Query History

Successfully run.
Total query
runtime: 91 msec.
18 rows affected.

	Season numeric	Date_Aired date	Title character varyi
1	1	2016-09-26	Pilot
2	1	2016-09-27	The Big Three
3	1	2016-10-11	Kyle
4	1	2016-10-18	The Pool
5	1	2016-10-25	The Game Plar
6	1	2016-11-01	Career Days
7	1	2016-11-15	The Best Wash
8	1	2016-11-22	Pilgrim Rick
9	1	2016-11-29	The Trip
10	1	2016-12-06	Last Christmas
11	1	2017-01-10	The Right Thing
12	1	2017-01-17	The Big Day
13	1	2017-01-24	Three Sentence
14	1	2017-02-07	I Call Marriage
15	1	2017-02-14	Jack Pearsons
16	1	2017-02-21	Memphis
17	1	2017-03-07	What Now?
18	1	2017-03-14	Moonshadow

```sql
INSERT INTO public."IMDB_ALL_EPISODES_LIST_SEASON_ONE"(
    "Season", "Date_Aired", "Title", "IMDB_Rating_Avg", "#Reviews_IMDB","Episode_Description")
    VALUES
(1,DATE'2016-09-26','Pilot',9.3,5124,'Rebecca goes into an early labor; Randall finds his biological father; Kevin
(1,DATE'2016-09-27','The Big Three',8.7,2911,'Jack and Rebecca struggle with raising a family; Beth grows suspiciou
(1,DATE'2016-10-11','Kyle',8.8,2736,'Rebecca pays a surprise visit, Kevin makes plans to move, and Toby prepares a
(1,DATE'2016-10-18','The Pool',8.9,2707,'Jack and Rebecca take their kids to the community pool; Kevin experiences
(1,DATE'2016-10-25','The Game Plan',8.8,2599,'Jack and Rebecca disagree about the future, Toby makes a gesture to
(1,DATE'2016-11-01','Career Days',8.6,2155,'Jack and Rebecca face a dilemma, Randall puts his foot down, Kate lands
(1,DATE'2016-11-15','The Best Washing Machine in the Whole World',8.6,2067,'Old tensions between Kevin and Randall
(1,DATE'2016-11-22','Pilgrim Rick',9.2,2593,'As Jack and Rebecca face a disastrous Thanksgiving, the family gather
(1,DATE'2016-11-29','The Trip',8.8,2251,'As Jack and Rebecca deal with Randalls questions about his parents, the s
(1,DATE'2016-12-06','Last Christmas',9.1,2440,'At Christmas, Jack and Rebecca are unexpectedly reunited with an old
(1,DATE'2017-01-10','The Right Thing to Do',8.5,1865,'Jack and Rebecca receive surprising news, Kate tries to help
(1,DATE'2017-01-17','The Big Day',9,2380,'As Rebeccas pregnancy drags on, she forgets Jacks birthday, Nathan copes
(1,DATE'2017-01-24','Three Sentences',8.9,2148,'Jack and Rebecca throw three separate birthday parties; Toby helps
(1,DATE'2017-02-07','I Call Marriage',8.5,1766,'Jack and Rebecca receive shocking news, Randall feels pressure both
(1,DATE'2017-02-14','Jack Pearsons Son',9,2290,'Jack and Rebeccas Valentines Day goes south; Toby and Kate dig deep
(1,DATE'2017-02-21','Memphis',9.5,3868,'Randall and William take a road trip to Memphis, where Randall learns about
(1,DATE'2017-03-07','What Now?',9.1,2118,'Jack and Rebecca argue before the beginning of her tour, Kevin faces anot
(1,DATE'2017-03-14','Moonshadow',8.7,1928,'Jack attempts to meet Rebecca and make things right; Kate, Kevin and Ran

Select * from public."IMDB_ALL_EPISODES_LIST_SEASON_ONE";
```

Here I manually had to insert all of the information from a CSV.file into one huge INSERT INTO statement, it worked. All of season one came out to 18 episodes.

Uses SELECT statements to provide some kind of basic statistical summary of the information that you entered (such as average rating across episodes).

Data Output | Messages | Notifications | Explain

	round numeric	round numeric
1	8.89	2552.56

Query Editor | Query History

```
Select ROUND(AVG("IMDB_Rating_Avg"), 2), ROUND(AVG ("#Reviews_IMDB"),2)
FROM public."IMDB_ALL_EPISODES_LIST_SEASON_ONE";
```

FOUND AVERAGE IMDB REVIEW SCORE (OUT OF 10) AND REVIEWER COUNT FOR ALL EPISODES IN SEASON ONE.

Data Output | Messages | Notifications | Explain

	Date_Aired date	Title character varying	IMDB_Rating_Avg numeric	avg_difference numeric
1	2016-09-26	Pilot	9.3	[null]
2	2016-09-27	The Big Three	8.7	-0.6
3	2016-10-11	Kyle	8.8	0.1
4	2016-10-18	The Pool	8.9	0.1
5	2016-10-25	The Game Plan	8.8	-0.1
6	2016-11-01	Career Days	8.6	-0.2
7	2016-11-15	The Best Washing Mac...	8.6	0.0
8	2016-11-22	Pilgrim Rick	9.2	0.6
9	2016-11-29	The Trip	8.8	-0.4
10	2016-12-06	Last Christmas	9.1	0.3
11	2017-01-10	The Right Thing to Do	8.5	-0.6
12	2017-01-17	The Big Day	9	0.5
13	2017-01-24	Three Sentences	8.9	-0.1
14	2017-02-07	I Call Marriage	8.5	-0.4
15	2017-02-14	Jack Pearsons Son	9	0.5
16	2017-02-21	Memphis	9.5	0.5
17	2017-03-07	What Now?	9.1	-0.4
18	2017-03-14	Moonshadow	8.7	-0.4

Query Editor | Query History

```
SELECT "Date_Aired",
       "Title",
       "IMDB_Rating_Avg",
       "IMDB_Rating_Avg" - lag("IMDB_Rating_Avg") over (order by "Date_Aired", "Title")
       as Avg_Difference
FROM public."IMDB_ALL_EPISODES_LIST_SEASON_ONE";
```

FOUND HOW AVERAGE OF LAST EPISODE FAIRED AGAINST LAST WEEK'S SEASON ONE EPISODE OF *THIS IS US.* *A POSITIVE VALUE IN THE avg_difference COLUMN MEANS THAT EPISODE WAS RATED BETTER THAN LAST WEEK'S AND VICE VERSA.*

ThisIsUS/postgres@PostgreSQL 11

Data Output | Messages | Notifications | Explain

	Date_Aired date	Title character varying	IMDB_Rating_Avg numeric	score_of_avg numeric
1	2016-09-26	Pilot	9.3	551
2	2017-02-21	Memphis	9.5	407
3	2016-09-27	The Big Three	8.7	335
4	2016-10-11	Kyle	8.8	311
5	2016-10-18	The Pool	8.9	304
6	2016-10-25	The Game Plan	8.8	295
7	2016-11-22	Pilgrim Rick	9.2	282
8	2016-12-06	Last Christmas	9.1	268
9	2017-01-17	The Big Day	9	264
10	2016-11-29	The Trip	8.8	256
11	2017-02-14	Jack Pearsons Son	9	254
12	2016-11-01	Career Days	8.6	251
13	2017-01-24	Three Sentences	8.9	241
14	2016-11-15	The Best Washing Mac...	8.6	240
15	2017-03-07	What Now?	9.1	233
16	2017-03-14	Moonshadow	8.7	222
17	2017-01-10	The Right Thing to Do	8.5	219
18	2017-02-07	I Call Marriage	8.5	208

Query Editor | Query History

```
SELECT "Date_Aired",
       "Title",
       "IMDB_Rating_Avg",
       ROUND("#Reviews_IMDB"::numeric/"IMDB_Rating_Avg"::numeric, 0) as SCORE_OF_AVG
FROM public."IMDB_ALL_EPISODES_LIST_SEASON_ONE"
       ORDER BY SCORE_OF_AVG DESC;
```

HERE, I GAVE SCORES TO AVERAGES WEIGHTING THEM ON HOW MANY IMDB-ERS RATED THE SHOW. NOTICE HOW ROW 15 SHOWS AN EPISODE WITH AN AVERAGE RATING OF 9.1, HOWEVER IT WAS ORDERED SO LOW BECAUSE SO FEW PEOPLE REVIEWED IT. NO SURPRISE, THE PILOT EPISODE(THE VERY FIRST EPISODE OF A TV SHOW) TOPS THE LIST. THESE KIND OF EPISODES NEED TO GATHER GOOD RATINGS TO CONTINUE A NETWORK'S INTEREST IN KEEPING A SHOW FINANCIALLY ALIVE.