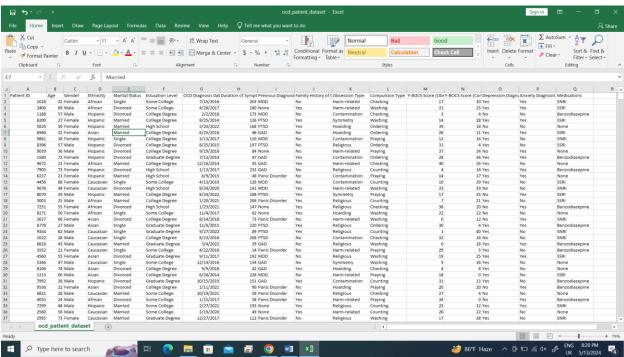
Healthcare data analysis

Data source: https://www.kaggle.com/datasets/ohinhaque/ocd-patient-dataset-

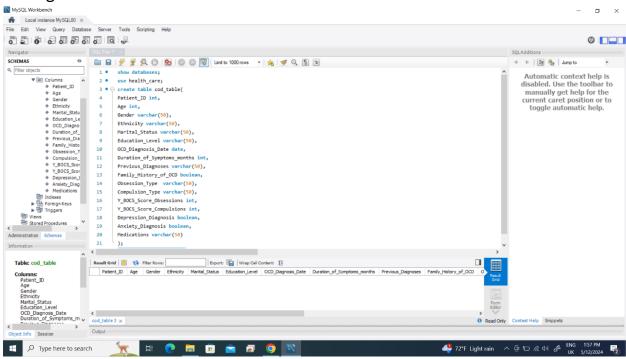
demographics-and-clinical-data/

1. CSV dataset



<u>SQL</u>

2. Creating table into the database



3. Loading data into the table

```
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.6/Uploads/ocd_patient_dataset.csv'
INTO TABLE cod_table
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n';

LINES TERMINATED BY '\n';
```

4. Modifying table and ready to work

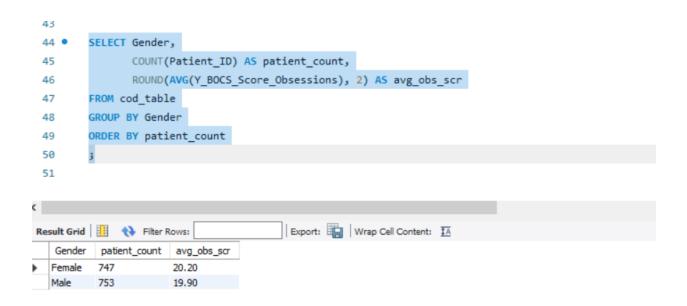
```
ALTER TABLE cod_table
MODIFY COLUMN Patient_ID int;

ALTER TABLE cod_table
MODIFY COLUMN Age int,
MODIFY COLUMN Duration_of_Symptoms_months int,
MODIFY COLUMN Y_BOCS_Score_Obsessions int,
MODIFY COLUMN Y_BOCS_Score_Compulsions int;

-- Convert the existing VARCHAR values to dates and update the column
UPDATE cod_table
SET OCD_Diagnosis_Date = DATE_ADD('1900-01-01', INTERVAL (CAST(OCD_Diagnosis_Date AS UNSIGNED) - 1) DAY);

ALTER TABLE cod_table
MODIFY COLUMN OCD_Diagnosis_Date date;
```

5. Calculating count of female and male that have ocd and average obsession score by gender



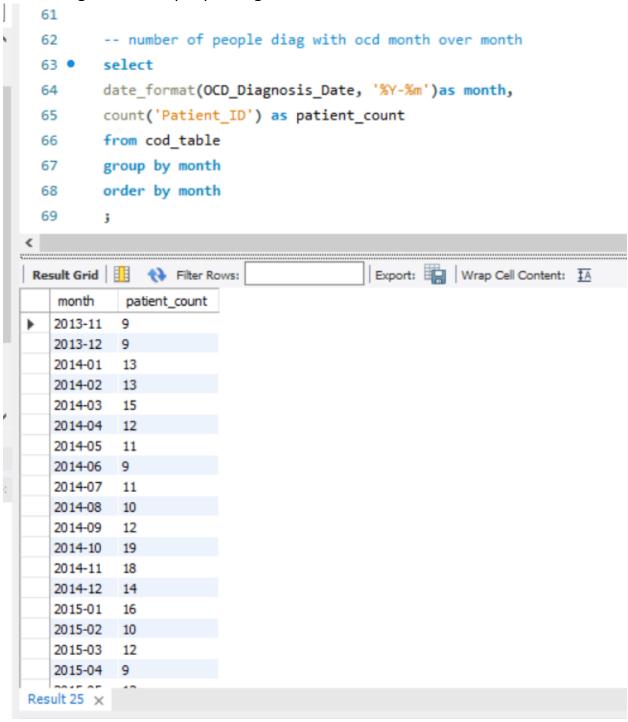
6. Calculating percentage for male and female

```
24 • ⊖ with data as (
        SELECT Gender,
 25
 26
               COUNT(Patient_ID) AS patient_count,
 27
               ROUND(AVG(Y_BOCS_Score_Obsessions), 2) AS avg_obs_scr
 28
        FROM cod_table
       GROUP BY Gender
 29
 30
       ORDER BY patient_count
 31
       select
 32
            sum(case when Gender = 'Female' then patient count else 0 end) as count female,
 33
            sum(case when Gender = 'Male' then patient count else 0 end) as count male,
           round((sum(case when Gender = 'Female' then patient count else 0 end)/
 35
           (sum(case when Gender = 'Female' then patient_count else 0 end)+
 36
 37
                sum(case when Gender = 'Male' then patient_count else 0 end))*100),2) as female_pct,
           round((sum(case when Gender = 'Male' then patient count else 0 end)/
 38
            (sum(case when Gender = 'Female' then patient_count else 0 end)+
 39
 40
                sum(case when Gender = 'Male' then patient_count else 0 end))*100),2) as male_pct
 41
        from data
 42
        i
 43
Result Grid | Filter Rows:
                                    Export: Wrap Cell Content: TA
  count_female count_male
                         female_pct male_pct
              753
```

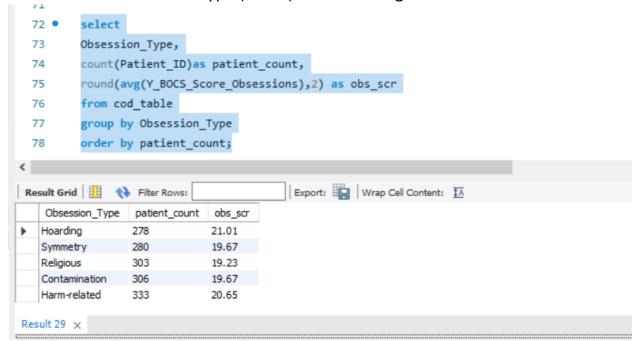
7. Calculating count and average of obsession by ethnicity

```
51
 52
         -- count and average obsession by ethnicity that have cod
 53
         select Ethnicity,
 54 •
         count(Patient_ID) as Patient_count,
 55
 56
         avg(Y_BOCS_Score_Obsessions) as obs_score
         from cod_table
 57
         group by Ethnicity
 58
         order by Patient_count
 59
 60
         ;
                                            Export: Wrap Cell Content: IA
Result Grid | Filter Rows:
   Ethnicity
              Patient_count
                           obs_score
  African
             324
                           19.7593
             386
                          20.3161
   Asian
   Hispanic
             392
                           20,2832
   Caucasian
             398
                           19.7915
```

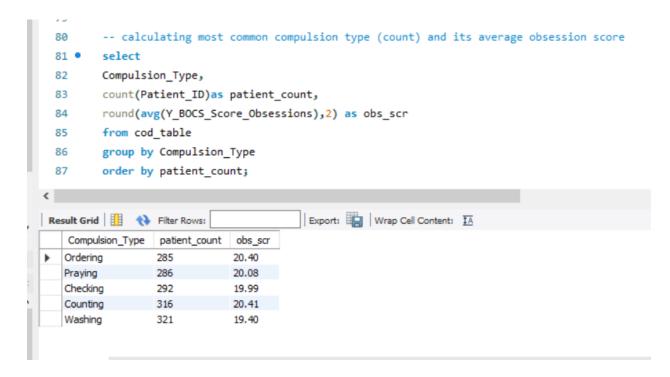
8. Calculating number of people diagnosis with ocd month over month



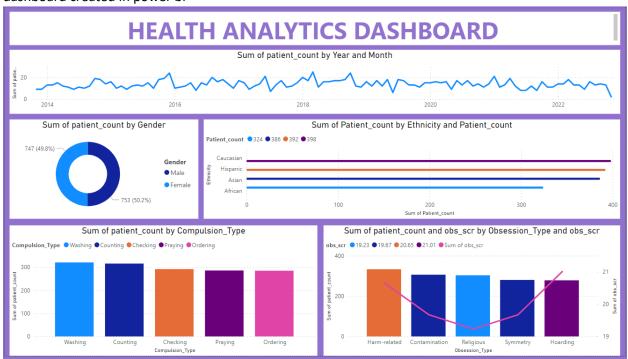
9. most common obsession type (count) and its average obsession score



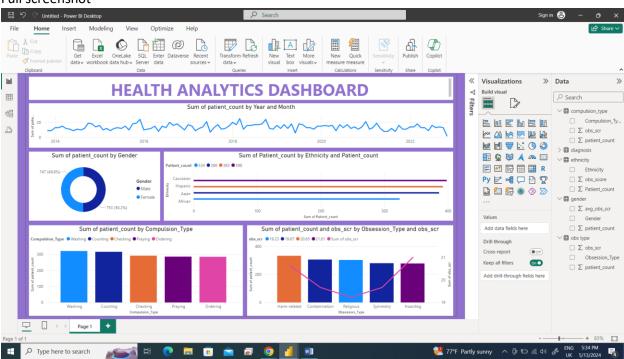
10.calculating most common compulsion type (count) and its average obsession score



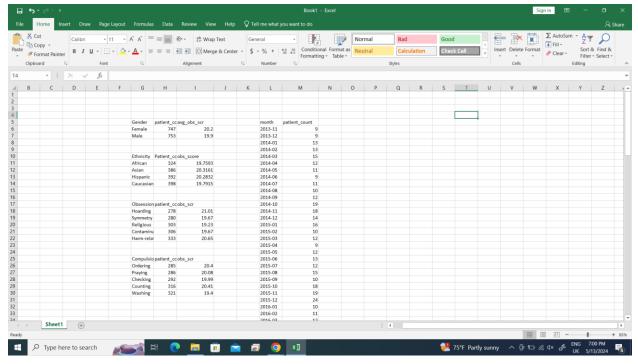
11. dashboard created in power bi



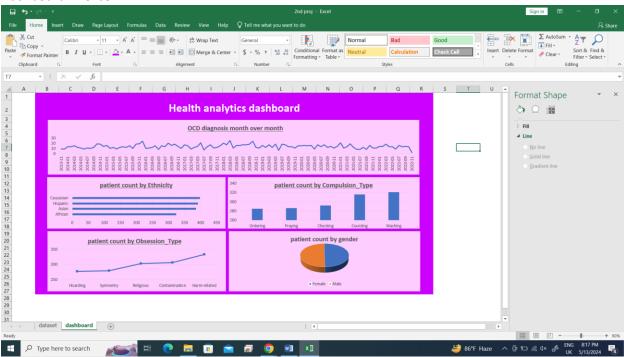
Full screenshot



12. Mini dataset loaded in the excel



13. Dashboard In excel



Thank you