```
PROJECT 2
```

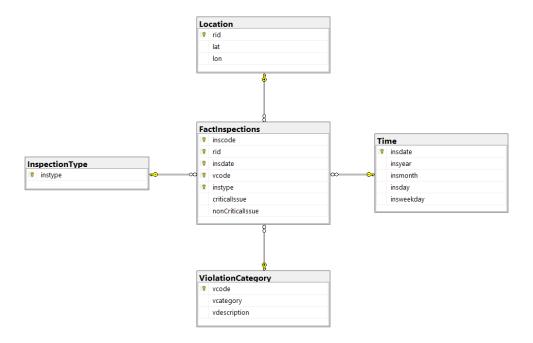
ΟΝ/ΜΟ:ΘΕΟΦΑΝΗΣ ΠΑΠΑΔΟΠΟΥΛΟΣ

AM:3200135

ZHTHMA 1o:

Παρακατω είναι ο κωδικας για τη δημιουργια βασης:

```
CREATE TABLE Inspections (
   rid INT,
    lat FLOAT,
    lon FLOAT,
    insdate DATE,
    insyear INT,
    insmonth INT,
    insday INT,
    insweekday INT,
    inscode INT,
    instype NVARCHAR(50),
    criticalIssue INT,
    nonCriticalIssue INT,
    vcode INT,
    vdescription NVARCHAR(255),
    vcategory NVARCHAR(255)
);
BULK INSERT Inspections
FROM 'C:\inspections_data\inspections_data.txt'
WITH (DATAFILETYPE = 'widechar', FIRSTROW =2, FIELDTERMINATOR= '|',
ROWTERMINATOR = '\n');
```



## ZHTHMA 2o:

Παρακατω είναι ο κωδικας για τα ζητηματα της  $2^{ης}$  ασκησης :

```
SELECT x.insyear, f1.instype, COUNT(*) AS NOF
FROM FactInspections f1
JOIN Time x ON f1.insdate = x.insdate
GROUP BY x.insyear, f1.instype
ORDER BY insyear DESC;
WITH InspectionIssues AS (
    SELECT
        f.rid AS RestaurantID,
        l.lat,
        1.lon,
        f.nonCriticalIssue,
        f.criticalIssue
    FROM FactInspections f
    JOIN Location 1 ON f.rid = 1.rid
SELECT
    RestaurantID,
    CONCAT(lat, ',', lon) AS Coordinates,
    SUM(nonCriticalIssue) AS TotalNonCriticalIssues,
    SUM(criticalIssue) AS TotalCriticalIssues,
    SUM(nonCriticalIssue + criticalIssue) AS TotalIssues
FROM InspectionIssues
GROUP BY RestaurantID, lat, lon
ORDER BY TotalIssues DESC;
```

```
WITH InspectionDetails AS (
    SELECT
       t.insyear,
       f.instype,
       vc.vcategory,
       f.criticalIssue
    FROM FactInspections f
    JOIN Time t ON f.insdate = t.insdate
    JOIN ViolationCategory vc ON f.vcode = vc.vcode
SELECT
   insyear,
    instype,
   vcategory,
    SUM(criticalIssue) AS TotalCriticalIssues
FROM InspectionDetails
GROUP BY
    ROLLUP(insyear, instype, vcategory);
```