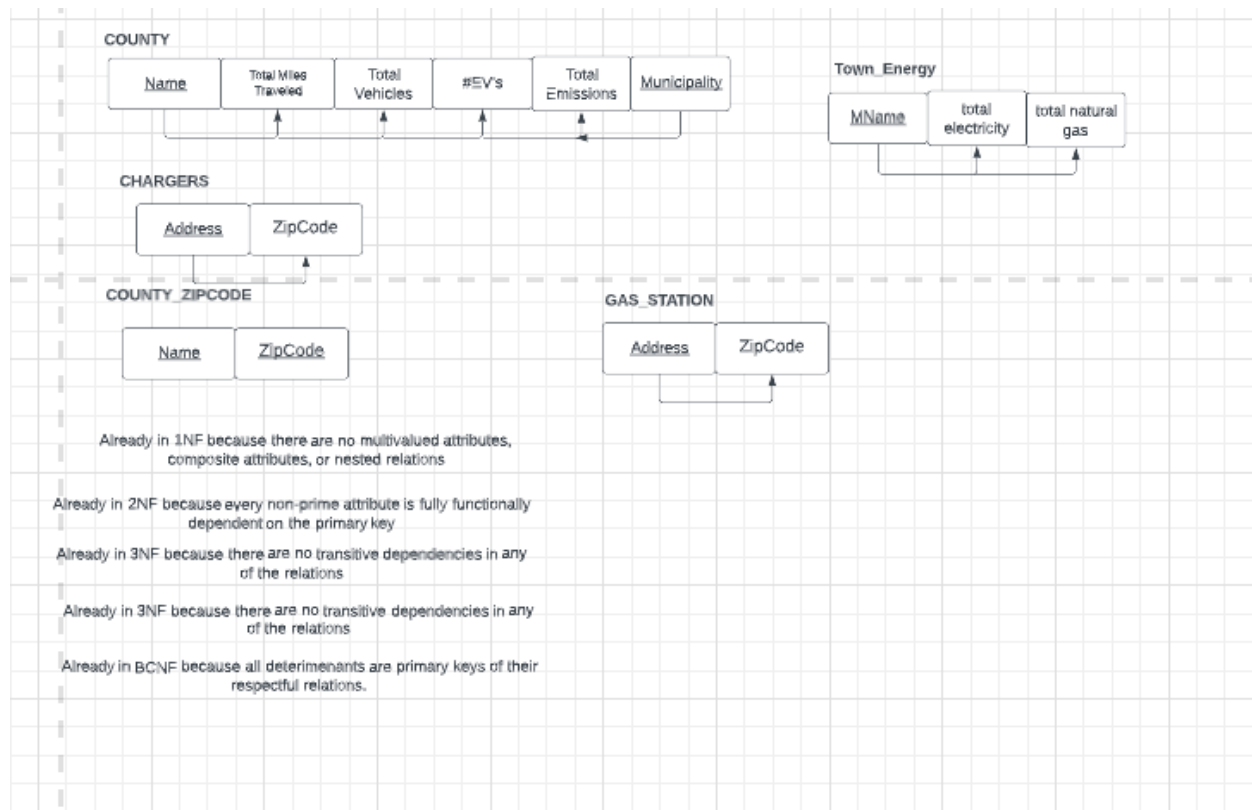Group 15 - Phase IV cap theorem on final exam
2)

Views
- View 1 : Emissions & Energy Used Per County
  CREATE VIEW EmissionsEnergyUsed AS
  SELECT NAME, MUNICIPALITY, TOTAL_EMISSIONS
  FROM COUNTY NATURAL JOIN TOWN_ENERGY;

- View 2 : Total EV Chargers Per ZipCode
  CREATE VIEW TotalChargers AS
  SELECT CZ.Name, CZ.ZipCode, COUNT(C.Address)
  FROM County_Zipcode AS CZ, Chargers AS C
  GROUP BY CZ.ZipCode;

SQL Queries

- Sort the counties ascending order by emissions
  SELECT NAME , SUM(TOTAL_EMISSIONS)
  FROM COUNTY
  ORDER BY NAME ASC;

- Sort the counties descending order by emissions
  SELECT NAME , SUM(TOTAL_EMISSIONS)
  FROM COUNTY
  ORDER BY NAME DESC;

- Find all chargers with inputted zip code
  SELECT ADDRESS
  FROM CHARGERS
  WHERE ZIP_CODE = 'USERINPUT';

- Find percent of EV's out of total vehicles per county
  SELECT NAME, EVS / TOTAL_VEHICLES AS 'EV PERCENTAGE'
  FROM COUNTY;

- What town uses the most natural gas
  CREATE VIEW ENERGY AS SELECT *
  FROM TOWN ENERGY
  ORDER BY TOTAL_NATURAL_GAS ASC;
  SELECT TOP 5 * FROM ENERGY;

- Find amount of gas stations per zip code
  SELECT COUNT(ADDRESS), ZIP_CODE
  FROM GAS_STATION
  GROUP BY ZIP_CODE

- Compare amount of chargers and gas stations per county
  CREATE VIEW CHARGERCOUNT AS
  SELECT ZIPCODE, COUNT(ADDRESS)
  FROM CHARGER
  GROUP BY ZIPCODE;
  ALTER VIEW CHARGERCOUNT
  RENAME COLUMN ADDRESS TO CHARGER_ADDRESS

  CREATE VIEW GASSTATIONCOUNT AS
  SELECT ZIPCODE, COUNT(ADDRESS)
  FROM GAS_STATION
  GROUP BY ZIPCODE;
  ALTER VIEW GASSTATIONCOUNT
  RENAME COLUMN ADDRESS TO GASSTATION_ADDRESS

```sql
CREATE VIEW RESULT AS
SELECT *
FROM COUNTY_ZIPCODE NATURAL JOIN (CHARGERCOUNT NATURAL JOIN
GASSTATIONCOUNT);

SELECT *
FROM RESULT;
```