Group 2-2 Energy Demand - Va tables views and queries

```
CREATE TABLE BUILDING (
      name text unique,
      bID char(7) PRIMARY KEY,
      Year built char(4),
      Prim use text,
      Eff factor decimal(20,20),
      Size integer
);
CREATE TABLE METER(
      mID char(8) PRIMARY KEY,
      mName varchar(4) UNIQUE,
      etype text,
      utype text
);
CREATE TABLE WEATHER(
      Month varchar(9) PRIMARY KEY,
      Avg temp decimal(3,2)
);
CREATE TABLE METER ENTRY(
      meconsumpID char(10) PRIMARY KEY,
      Start date text,
      End date text,
      Usage decimal(10,2),
      Cost decimal(10,2),
      mName varchar(4),
      FOREIGN KEY (mName) REFERENCES meter (mName)
);
CREATE TABLE belongs to(
      buildingID char(7),
      meterID char(8),
      PRIMARY KEY(buildingID, meterID)
      FOREIGN KEY (buildingID) REFERENCES building (bID)
      FORIEGN KEY (meterID) REFERENCES meter (mID)
);
```

QUERIES:

QUERY #1:

SELECT SUM(Usage) FROM METER_ENTRY WHERE EXTRACT(MONTH FROM Start_date) = 3; sums the usage of all meters in march

OUERY #2:

CREATE VIEW Result AS SELECT eff_factor FROM Building WHERE name = 'Cromwell Hall';

CREATE VIEW Prod as SELECT sum(Usage) FROM meter_entry WHERE start_date LIKE '3%':

CREATE VIEW Total as SELECT * FROM Prod, Result; SELECT sum * eff Factor FROM Total;

QUERY #3:

CREATE VIEW TEMP AS SELECT SUM(Usage) FROM METER_ENTRY WHERE EXTRACT(MONTH FROM Start_date) >= 3
AND EXTRACT(MONTH FROM End date) <= 6;

CREATE VIEW Result AS SELECT eff_factor FROM Building WHERE name = 'Cromwell Hall';

CREATE VIEW DEMAND AS SELECT * FROM temp, result;

create view answer AS SELECT sum * eff Factor as ans FROM demand;

CREATE VIEW SPRINGWEATHER AS SELECT AVG(avg_temp) FROM WEATHER WHERE month >= 3
AND month <= 6;

select * from answer, springweather;

Gives building usage in spring and corresponding average temperature

QUERY #4:

Select * from building; Gives all the basic facts of the building