

Team 01-07

Team Members:

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ACC 311/ CSC 315

Energy Demand

SQL Data Manipulation Queries

buildings

privilege user

- CRUD
 - remove buildings
 - create buildings
 - update buildings
 - view buildings

user

- view buildings
SELECT * FROM buildings;
- view building specific types
SELECT DISTINCT buildings.btype FROM buildings;
- summation of square footage of all buildings
SELECT SUM(sq_ft)
FROM buildings;
- summation of square footage of all buildings by type
SELECT SUM(sq_ft)
GROUP BY(btype);
- summation of square footage of specific types of buildings
SELECT SUM(sq_ft)
FROM buildings
WHERE btype = (input type);
- view buildings by year oldest to newest
SELECT name, year_built
FROM buildings
ORDER BY year_built ASC;
- view buildings by year newest to oldest
SELECT name, year_built
FROM buildings
ORDER BY year_built DSC;
- view buildings by A-Z* (if time)

```
SELECT name
FROM buildings
ORDER BY name ASC;
```

- view buildings by Z-A* (if time)

```
SELECT name
FROM buildings
ORDER BY name DSC;
```

el_energy / ng_energy

privilege user

- CRUD
 - remove buildings
 - create buildings
 - update buildings
 - view buildings

user

- view all data attributes with all month & year

```
select extract (month from start_date), extract (year from start_date), kWh, cost
from el_energy;
```
- view all data attributes by month

```
select extract (month from start_date), extract (year from start_date), kWh, cost
from el_energy
where extract (month from start_date) = 7;
```
- view all data attributes by year

```
select extract (month from start_date), extract (year from start_date), kWh, cost
from el_energy
where extract (year from start_date) = 2014;
```
- view average month cost - provides only the average

```
select avg(cost)
from el_energy
where extract (month from start_date) = 7;
```
- view average month units - provides only the average

```
select avg(kwh)
from el_energy
where extract (month from start_date) = 7;
```
- view sum year costs

```
select sum(cost)
from el_energy
```

where extract(year from start_date) = 8;

- view sum year units
select sum(kwh)
from el_energy
where extract(year from start_date) = 2015;
- view average cost within year
select avg(cost)
from el_energy
where extract(year from start_date) = 2015;
- view average units within year
select avg (kwh)
from el_energy
where extract(year from start_date) = 2019