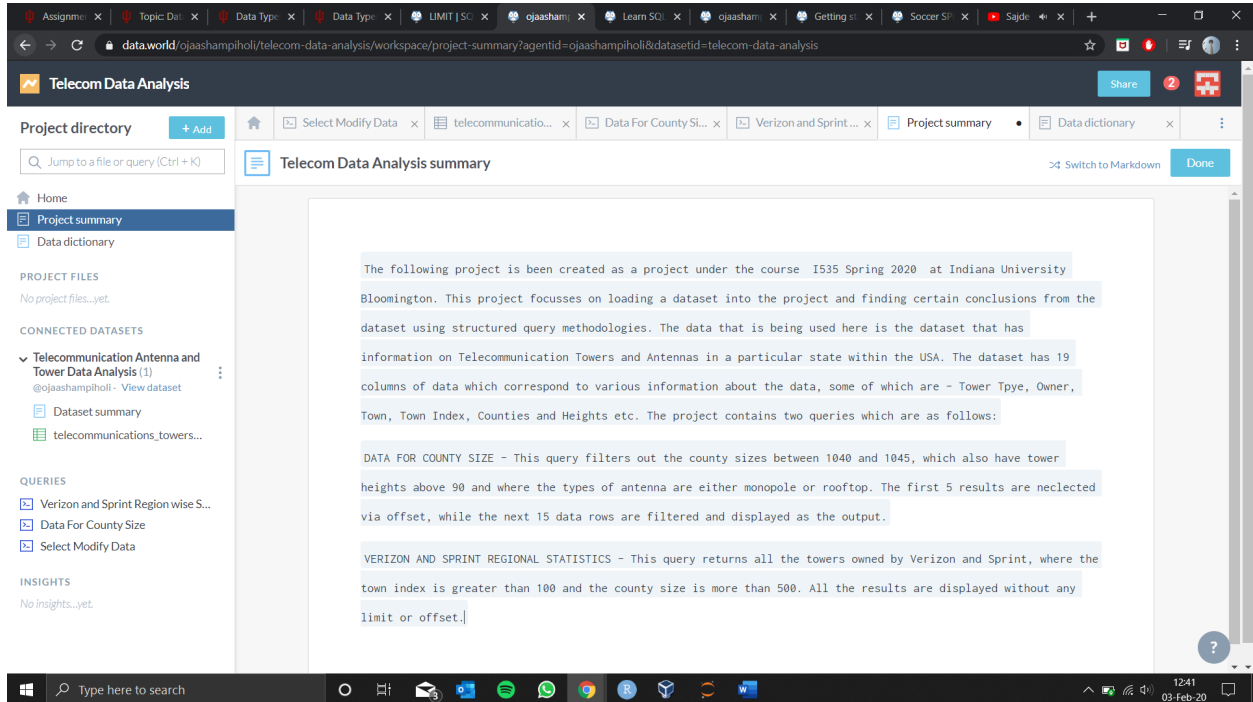


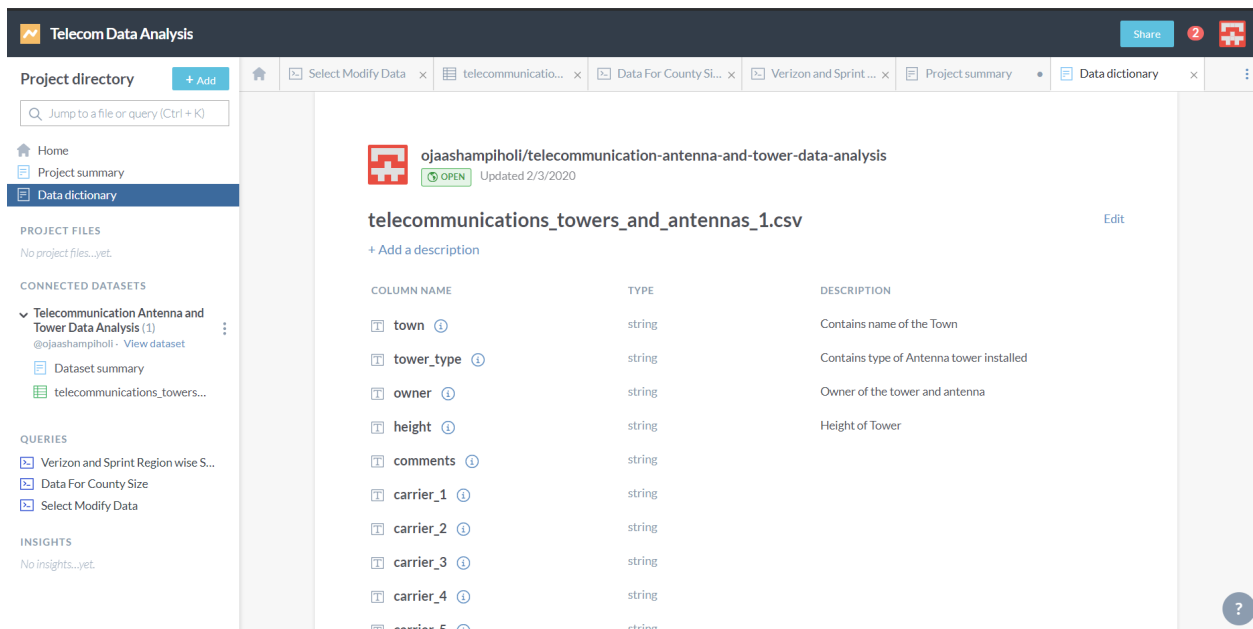
I535 ASSIGNMENT 2: DATA TYPES AND STRUCTURES

OJAAS HAMPIHOLI – 03/02/2020

The Project Summary page has been updated as follows:



The Data Dictionary page contains the brief description of the data stored in each column:



The first query mentioned in the Project Summary titled “Data for County Size” has been implemented as follows:

The screenshot shows the 'Telecom Data Analysis' application interface. The left sidebar contains a 'Project directory' with sections for Home, Project summary, Data dictionary, PROJECT FILES, CONNECTED DATASETS, and QUERIES. The 'QUERIES' section is expanded, showing 'Data For County Size' as the selected query. The main panel displays the SQL query for 'Data For County Size' and its results. The query filters for tower types 'monopole' or 'rooftop', excludes null heights, and filters for counties between 1040 and 1045, ordered by height in descending order with a limit of 15. The results table shows 15 rows of data.

```
1 SELECT tower_type AS Tower, owner AS Owner, town AS Town, zip_code AS Zip, height AS Height, counties AS Counties
2 FROM telecommunications_towers_and_antennas_1
3 WHERE (tower_type = 'monopole' OR tower_type = 'rooftop') AND
4 (height IS NOT NULL AND height < 90) AND
5 owner IS NOT NULL AND
6 Counties BETWEEN 1040 AND 1045
7 ORDER BY height DESC
8 LIMIT 15
9 OFFSET 5
```

	Tower	Owner	Town	Zip	Height	Counties
1	rooftop	Verizon	Westport	179	81	1040
2	monopole	T-Mobile	Old Lyme	136	80	1045
3	monopole	AT&T/SCLP	Middlefield	238	75	1043
4	monopole	CL&P	Stamford	44	75	1040
5	monopole	ConnDOT	East Granby	225	75	1041
6	monopole	SCLP	South Windsor	89	75	1041
7	rooftop	AT&T	Stamford	7	73	1040
8	rooftop	Verizon	Shelton	217	73	1040
9	monopole	SBA/Perelli & Sons	East Haven	130	70	1044

The second query mentioned in the project summary titled “Verizon and Sprint Region wise Statistics” has been implemented as follows:

The screenshot shows the 'Telecom Data Analysis' application interface. The left sidebar contains a 'Project directory' with sections for Home, Project summary, Data dictionary, PROJECT FILES, CONNECTED DATASETS, and QUERIES. The 'QUERIES' section is expanded, showing 'Verizon and Sprint Region wise Statistics' as the selected query. The main panel displays the SQL query for 'Verizon and Sprint Region wise Statistics' and its results. The query filters for owners 'Verizon' or 'Sprint', excludes town indices greater than 100, and filters for counties greater than 500, ordered by planning regions in descending order. The results table shows 124 rows of data.

```
1 SELECT owner AS Owner, town AS Town, tower_type AS Tower, planning_regions AS Regions, town_index as TownIndex,
2 counties AS Counties
3 FROM telecommunications_towers_and_antennas_1
4 WHERE (owner = 'Verizon' OR owner = 'Sprint') AND
5 town_index > 100 AND
6 counties > 500
7 ORDER BY planning_regions DESC
```

	Owner	Town	Tower	Regions	TownIndex	Counties
1	Verizon	Stamford	utility pole	9	135	1040
2	Verizon	Stamford	rooftop	9	135	1040
3	Verizon	Stamford	utility pole	9	135	1040
4	Verizon	Westport	utility pole	9	158	1040
5	Verizon	Stamford	utility pole	9	135	1040
6	Verizon	Westport	utility pole	9	158	1040
7	Verizon	Ridgefield	rooftop	9	118	1040
8	Verizon	Stamford	utility pole	9	135	1040
9	Verizon	Stamford	rooftop	9	135	1040
10	Verizon	Stamford	utility pole	9	135	1040