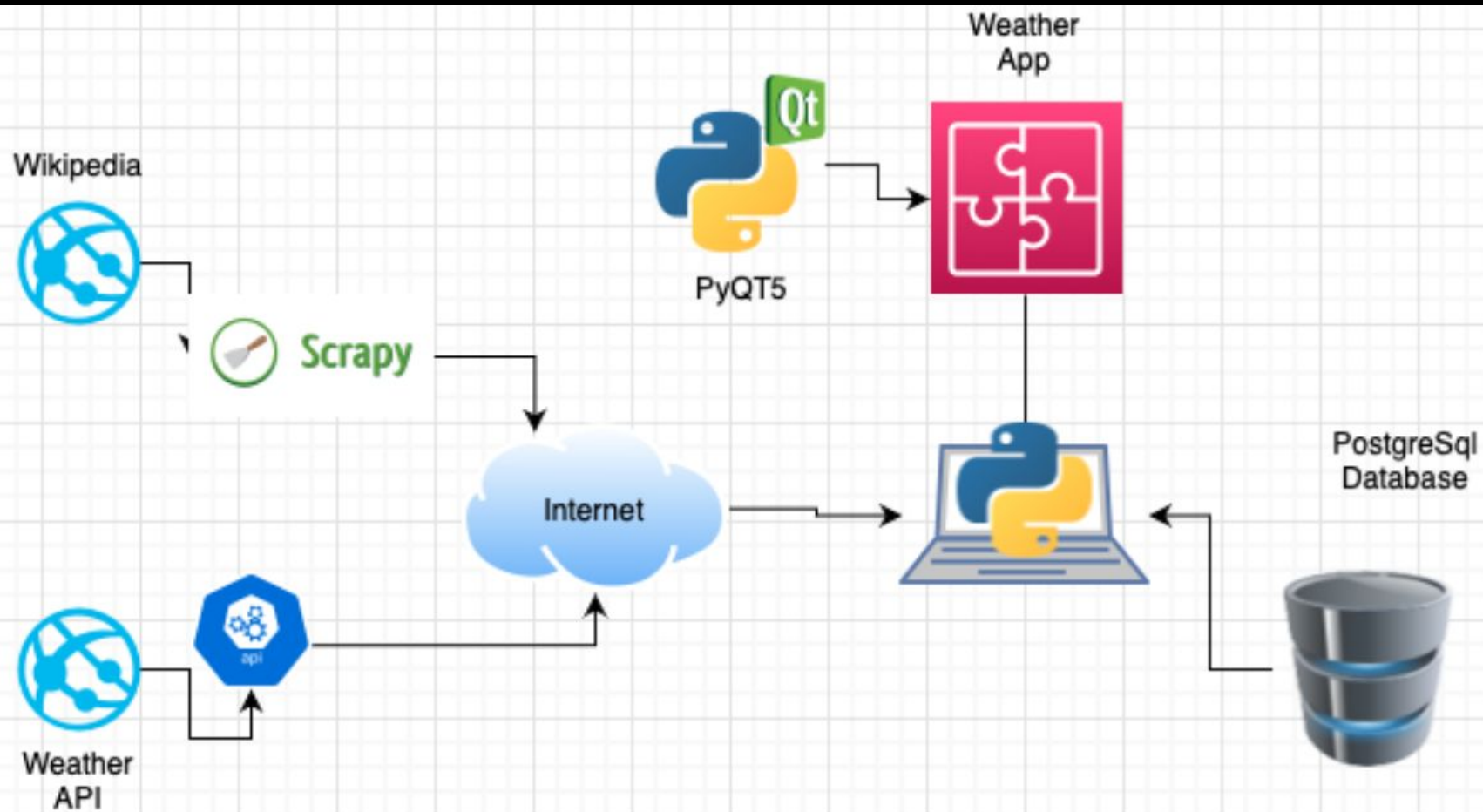


# TEAM 3

Weather Application v1.0





Step 1

UML Design (Making Plan)

2

Consider Web Scrapping Data Visualization

1/1

FC

Consider Web API Data Visualizations

1/1

FC

Case Diagram

1/1

FC

Class Diagram

1/1

FC

+ Add a card

Step 2

Scrapy will be used extracting the data you need from Wikipedia web site.

3/3

MK

The name of the selected City will be displayed in the program.

1/1

MK

The region or state of the selected City will be shown in the program.

1/1

MK

The population of the selected City will be displayed in the program.

1/1

MK

All information should be ordered and stored in DB

1/1

MK

+ Add a card

Step 3

HTTP-Request and API will be used to pull real-time weather information from the website.

1/1

M

Weather information of the selected cities is taken from <https://openweathermap.org/api> site. (You can choose other web sites)

1/1

M

The Weather of the selected City will be displayed in the program with Icons.

1/1

M

All information should be ordered and stored in DB

1/1

M

+ Add a card

Step 4

Program Main page will contain the following components.

Countries

Selected Country, Cities, Regions, Populations ordered By Population

1/1

FC

City Search Bar

1/1

FC

Selected City Name

1/1

FC

Selected City Region

1/1

FC

Selected City Population

1/1

FC

Selected City Temperature (Celsius)

1/1

FC

Selected City Weather Condition Icon

1/1

FC

+ Add a card

Step 5

Presentation

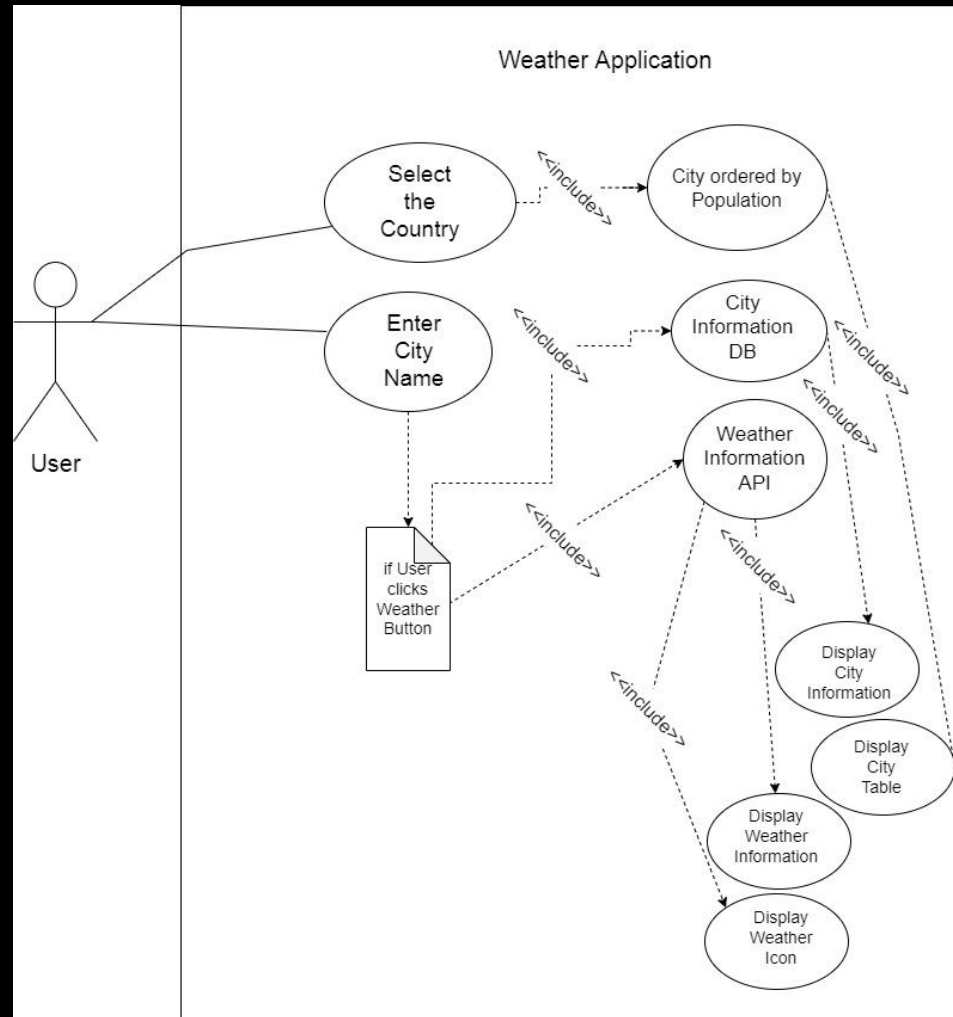
MK

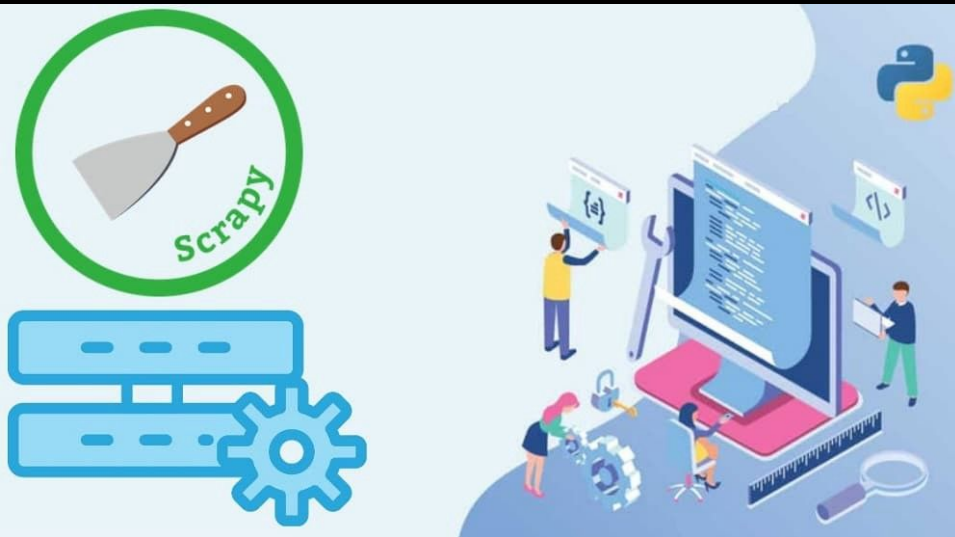
Presentation

1/1

MK

+ Add a card





```
EXPLORER
SCRAPY
  projem
  projem
  _pycache_
  spiders
    _pycache_
    weather.py
    items.py
    middlewares.py
    pipelines.py
    settings.py
    scrapy.cfg

weather.py X
projem > projem > spiders > weather.py > ...
1 import scrapy
2 import pycpg2
3 from twisted.internet import reactor, defer
4 from scrapy.crawler import CrawlerRunner
5 from scrapy.utils.log import configure_logging
6 from scrapy.utils.project import get_project_settings
7
8 connection = pycpg2.connect(host='localhost', user='postgres', password='123456', dbname='weather')
9 cur = connection.cursor()
10
11 cur.execute(""" CREATE TABLE IF NOT EXISTS city_info (land text NOT NULL,
12                city text NOT NULL, province text NOT NULL, population integer NOT NULL) """)
13 connection.commit()
14
15 > class Weather1(scrapy.Spider):...
33
34 > class Weather2(scrapy.Spider):...
63
64 > class Weather3(scrapy.Spider):...
84
85 configure_logging()
86 settings = get_project_settings()
87 runner = CrawlerRunner(settings)
88
89 @defer.inlineCallbacks
90
91 def crawl():...
96
97 crawl()
98 reactor.run()
```

pgAdmin 4

pgAdminFileObjectToolsHelp

Browserservers (2)PostgreSQL 14pycodersDatabases (4)dvdrentalpostgresshop\_dataweatherCastsCatalogsEvent TriggersExtensionsForeign Data WrappersLanguagesPublicationsSchemas (1)publicAggregatesCollationsDomainsFTS ConfigurationsFTS DictionariesAa FTS ParsersFTS TemplatesForeign TablesFunctionsMaterialized ViewsOperatorsProceduresSequencesTables (1)city\_infoColumnsConstraintsIndexesRLS PoliciesRulesTriggersTrigger FunctionsTypes

PropertiesSQLpublic.city\_info/weather/postgres@pycoders

Query EditorQuery History

```
1 SELECT * FROM public.city_info
2
```

Data OutputExplainMessagesNotifications

	land text	city text	province text	population integer
1	Turkey	Istanbul	Marmara Bölgesi	15462452
2	Turkey	Ankara	İç Anadolu Bölgesi	5663322
3	Turkey	İzmir	Ege Bölgesi	4394694
4	Turkey	Bursa	Marmara Bölgesi	3101833
5	Turkey	Antalya	Akdeniz Bölgesi	2548308
6	Turkey	Adana	Akdeniz Bölgesi	2258718
7	Turkey	Konya	İç Anadolu Bölgesi	2250020
8	Turkey	Şanlıurfa	Güneydoğu Anadolu Bölgesi	2118718
9	Turkey	Gaziantep	Güneydoğu Anadolu Bölgesi	2101157
10	Turkey	Kocaeli	Marmara Bölgesi	1997258
11	Turkey	Mersin	Akdeniz Bölgesi	1868757
12	Turkey	Diyarbakır	Güneydoğu Anadolu Bölgesi	1783431
13	Turkey	Hatay	Akdeniz Bölgesi	1659320
14	Turkey	Manisa	Ege Bölgesi	1450616
15	Turkey	Kayseri	İç Anadolu Bölgesi	1421455
16	Turkey	Samsun	Karadeniz Bölgesi	1356079
17	Turkey	Balıkesir	Marmara Bölgesi	1240285
18	Turkey	Kahramanmaraş	Akdeniz Bölgesi	1168163
19	Turkey	Van	Doğu Anadolu Bölgesi	1149342

python

City

Weather

City :

Province :

Population :

Exit

Netherland

USA

Turkey

	City	Province	Population
1			



City

Weather

City :

Province :

Population :

Netherland

USA

Turkey

	City	Province	Population
1	İstanbul	Marmara Bölgesi	15,462,452
2	Ankara	İç Anadolu ...	5,663,322
3	İzmir	Ege Bölgesi	4,394,694
4	Bursa	Marmara Bölgesi	3,101,833
5	Antalya	Akdeniz Bölgesi	2,548,308
6	Adana	Akdeniz Bölgesi	2,258,718
7	Konya	İç Anadolu ...	2,250,020
8	Şanlıurfa	Güneydoğu ...	2,118,718
9	Gaziantep	Güneydoğu ...	2,101,157
10	Kocaeli	Marmara Bölgesi	1,997,258
11	Mersin	Akdeniz Bölgesi	1,868,757
12	Diyarbakır	Güneydoğu ...	1,783,431
13	Hatay	Akdeniz Bölgesi	1,659,320
14	Manisa	Ege Bölgesi	1,450,616
15	Kayseri	İç Anadolu ...	1,421,455
16	Samsun	Karadeniz ...	1,356,079
17	Balıkesir	Marmara Bölgesi	1,240,285
18	Kahramanmaraş	Akdeniz Bölgesi	1,168,163

Exit



City

Weather

City :

Province :

Population :

Netherland

USA

Turkey

	City	Province	Population
1	New York	New York	8,467,513
2	Los Angeles	California	3,849,297
3	Chicago	Illinois	2,696,555
4	Houston	Texas	2,288,250
5	Phoenix	Arizona	1,624,569
6	Philadelphia	Pennsylvania	1,576,251
7	San Antonio	Texas	1,451,853
8	San Diego	California	1,381,611
9	Dallas	Texas	1,288,457
10	San Jose	California	983,489
11	Austin	Texas	964,177
12	Jacksonville	Florida	954,614
13	Fort Worth	Texas	935,508
14	Columbus	Ohio	906,528
15	Indianapolis	Indiana	882,039
16	Charlotte	North Carolina	879,709
17	San Francisco	California	815,201
18	Seattle	Washington	723,010

Exit

City

Weather

City :

Province :

Population :

Netherland

USA

Turkey

	City	Province	Population
1	Amsterdam	Noord-Holland	905,234
2	Rotterdam	Zuid-Holland	656,050
3	Den Haag	Zuid-Holland	552,995
4	Utrecht	Utrecht	361,924
5	Eindhoven	Noord-Brabant	238,478
6	Groningen	Groningen	234,649
7	Tilburg	Noord-Brabant	224,702
8	Almere	Flevoland	218,096
9	Breda	Noord-Brabant	184,716
10	Nijmegen	Gelderland	179,073
11	Apeldoorn	Gelderland	165,648
12	Arnhem	Gelderland	164,096
13	Haarlem	Noord-Holland	162,914
14	Enschede	Overijssel	160,383
15	Haarlemmermeer	Noord-Holland	159,346
16	Amersfoort	Utrecht	158,712
17	Zaanstad	Noord-Holland	157,215
18	Leeuwarden	Friesland	156,500

Exit

Weather

City :

Province :

Population :

NetherlandUSATurkey

	City	Province	Population
1	New York	New York	8,467,513
2	Los Angeles	California	3,849,297
3	Chicago	Illinois	2,696,555
4	Houston	Texas	2,288,250
5	Phoenix	Arizona	1,624,569
6	Philadelphia	Pennsylvania	1,576,251
7	San Antonio	Texas	1,451,853
8	San Diego	California	1,381,611
9	Dallas	Texas	1,288,457
10	San Jose	California	983,489
11	Austin	Texas	964,177
12	Jacksonville	Florida	954,614
13	Fort Worth	Texas	935,508
14	Columbus	Ohio	906,528
15	Indianapolis	Indiana	882,039
16	Charlotte	North Carolina	879,709
17	San Francisco	California	815,201
18	Seattle	Washington	723,040

Exit

29°C



clear sky

2022-06-02 19:19:31

City : İzmir

Province : Ege Bölgesi

Population : 4,394,694

İzmir, Turkey

Netherland

USA

Turkey

	City	Province	Population
1	New York	New York	8,467,513
2	Los Angeles	California	3,849,297
3	Chicago	Illinois	2,696,555
4	Houston	Texas	2,288,250
5	Phoenix	Arizona	1,624,569
6	Philadelphia	Pennsylvania	1,576,251
7	San Antonio	Texas	1,451,853
8	San Diego	California	1,381,611
9	Dallas	Texas	1,288,457
10	San Jose	California	983,489
11	Austin	Texas	964,177
12	Jacksonville	Florida	954,614
13	Fort Worth	Texas	935,508
14	Columbus	Ohio	906,528
15	Indianapolis	Indiana	882,039
16	Charlotte	North Carolina	879,709
17	San Francisco	California	815,201
18	Seattle	Washington	723,040

City

Weather

19°C



overcast clouds

2022-06-02 19:36:22

City : Nijmegen  
Province : Gelderland  
Population : 179,073

Nijmegen, Netherland

Netherland

USA

Turkey

	City	Province	Population
1	Amsterdam	Noord-Holland	905,234
2	Rotterdam	Zuid-Holland	656,050
3	Den Haag	Zuid-Holland	552,995
4	Utrecht	Utrecht	361,924
5	Eindhoven	Noord-Brabant	238,478
6	Groningen	Groningen	234,649
7	Tilburg	Noord-Brabant	224,702
8	Almere	Flevoland	218,096
9	Breda	Noord-Brabant	184,716
10	Nijmegen	Gelderland	179,073
11	Apeldoorn	Gelderland	165,648
12	Arnhem	Gelderland	164,096
13	Haarlem	Noord-Holland	162,914
14	Enschede	Overijssel	160,383
15	Haarlemmermeer	Noord-Holland	159,346
16	Amersfoort	Utrecht	158,712
17	Zaanstad	Noord-Holland	157,215
18	Leiden	Noord-Brabant	156,500

Exit

15°C



broken clouds

2022-06-02 19:36:38

City : San Francisco

Province : California

Population : 815,201

San Francisco, Usa

Netherland

USA

Turkey

	City	Province	Population
1	New York	New York	8,467,513
2	Los Angeles	California	3,849,297
3	Chicago	Illinois	2,696,555
4	Houston	Texas	2,288,250
5	Phoenix	Arizona	1,624,569
6	Philadelphia	Pennsylvania	1,576,251
7	San Antonio	Texas	1,451,853
8	San Diego	California	1,381,611
9	Dallas	Texas	1,288,457
10	San Jose	California	983,489
11	Austin	Texas	964,177
12	Jacksonville	Florida	954,614
13	Fort Worth	Texas	935,508
14	Columbus	Ohio	906,528
15	Indianapolis	Indiana	882,039
16	Charlotte	North Carolina	879,709
17	San Francisco	California	815,201
18	Seattle	Washington	723,010



Paris

Weather

City :

Province :

Population :

Netherland

USA

Turkey

	City	Province	Population
1	İstanbul	Marmara Bölgesi	15,462,452
2	Ankara	İç Anadolu ...	5,663,322
3	İzmir	Ege Bölgesi	4,394,694
4	Bursa	Marmara Bölgesi	3,101,833
5	Antalya	Akdeniz Bölgesi	2,548,308
6	Adana	Akdeniz Bölgesi	2,258,718
7	Konya	İç Anadolu ...	2,250,020
8	Şanlıurfa	Güneydoğu ...	2,118,718
9	Gaziantep	Güneydoğu ...	2,101,157
10	Kocaeli	Marmara Bölgesi	1,997,258
11	Mersin	Akdeniz Bölgesi	1,868,757
12	Diyarbakır	Güneydoğu ...	1,783,431
13	Hatay	Akdeniz Bölgesi	1,659,320
14	Manisa	Ege Bölgesi	1,450,616
15	Kayseri	İç Anadolu ...	1,421,455
16	Samsun	Karadeniz ...	1,356,079
17	Balıkesir	Marmara Bölgesi	1,240,285
18	Kahramanmaraş	Akdeniz Bölgesi	1,168,463

Exit



City

Weather

City not found.

City :

Province :

Population :

Netherland

USA

Turkey

	City	Province	Population
1	İstanbul	Marmara Bölgesi	15,462,452
2	Ankara	İç Anadolu ...	5,663,322
3	İzmir	Ege Bölgesi	4,394,694
4	Bursa	Marmara Bölgesi	3,101,833
5	Antalya	Akdeniz Bölgesi	2,548,308
6	Adana	Akdeniz Bölgesi	2,258,718
7	Konya	İç Anadolu ...	2,250,020
8	Şanlıurfa	Güneydoğu ...	2,118,718
9	Gaziantep	Güneydoğu ...	2,101,157
10	Kocaeli	Marmara Bölgesi	1,997,258
11	Mersin	Akdeniz Bölgesi	1,868,757
12	Diyarbakır	Güneydoğu ...	1,783,431
13	Hatay	Akdeniz Bölgesi	1,659,320
14	Manisa	Ege Bölgesi	1,450,616
15	Kayseri	İç Anadolu ...	1,421,455
16	Samsun	Karadeniz ...	1,356,079
17	Balıkesir	Marmara Bölgesi	1,240,285
18	Kahramanmaraş	Akdeniz Bölgesi	1,168,463

Exit

City

Weather

20°C



scattered cloud

2022-06-02 19:32:26

City : Bursa

Province : Marmara Bölgesi

Population : 3,101,833

Bursa, Turkey

Netherland

USA

Turkey

	City	Province	Population
1	İstanbul	Marmara Bölgesi	15,462,452
2	Ankara	İç Anadolu ...	5,663,322
3	İzmir	Ege Bölgesi	4,394,694
4	Bursa	Marmara Bölgesi	3,101,833
5	Antalya	Akdeniz Bölgesi	2,548,308
6	Adana	Akdeniz Bölgesi	2,258,718
7	Konya	İç Anadolu ...	2,250,020
8	Şanlıurfa	Güneydoğu ...	2,118,718
9	Gaziantep	Güneydoğu ...	2,101,157
10	Kocaeli	Marmara Bölgesi	1,997,258
11	Mersin	Akdeniz Bölgesi	1,868,757
12	Diyarbakır	Güneydoğu ...	1,783,431
13	Hatay	Akdeniz Bölgesi	1,659,320
14	Manisa	Ege Bölgesi	1,450,616
15	Kayseri	İç Anadolu ...	1,421,455
16	Samsun	Karadeniz ...	1,356,079
17	Balıkesir	Marmara Bölgesi	1,240,285
18	Kahramanmaraş	Akdeniz Bölgesi	1,168,463

Exit