**Load Excel Sheet**

**Transform data**

**Problem Statement**: To analyse how the price of property varies across various dimensions and the trends present in the property business.

**Develop Strategy for BI:**

**Remove unwanted columns:**

* page\_url(not in scope - Remove Column as it is not useful for BI)
* location\_id (not in scope - Remove Column as it is not useful for BI)
* latitutude and longitude (not in scope - Remove Column as it is not useful for BI)
* property id (not in scope - Remove Column as it is not useful for BI)
* location id (not in scope - Remove Column as it is not useful for BI)
* Area type (not in scope - Remove Column as it is not useful for BI)
* area category (not in scope - Remove Column as it is not useful for BI)

**Rename columns to valuable names.**

**Apply Group by:**

* Type(OK)
* Price(Store rows with <=1000 price in another duplicate table) (OK)
* Province(OK)
* City(OK)
* Location(OK)
* Purpose(OK)
* No.Bedrooms(OK)
* No.Baths(OK)
* Date(Change pattern and convert to DateTime)
* Agency(OK)
* Agent(Split agents to have only single value)
* Area(Convert all areas in to kanal and rename to Area/Kanal)(As minimum area is 0.02 kanal, the rows which have lesser value have been removed)
* Create new column of Rounded up area for better BI analysis

**Create Hierarchy**

* As within every province, there is a city and within every city, there is a location, we create Hierarchy for Province.
* As Every agency has an agent, we create a hierarchy for Agency which has agent and agency

**Dimensions(normal)**

* Purpose
* Type
* Area
* No.Baths
* No.Bedrooms
* Agency Heirarchy

**Dimensions(location)**

* Province Heirarchy

**Dimensions(time)**

* Date

**Measure:**

Price

**Questions:**

How did price fluctuate through date, province hierarchy, agency hierarchy etc?

What was the total increase in prices of property listed in 2018 and property listed in 2019 with regards to the type.

Which property has the highest average price across provinces?

Does number of baths and bedrooms effect the price of property?

How does the price in property vary across provinces and what types are available in different areas and cities?

Which cities encountered an increase and decrease in property rates over the years?

Which type of property has the greatest number of baths, bedrooms and area?

Attached below are the screenshots that answer these questions.

Table

Description automatically generated

Graphical user interface, chart

Description automatically generated with medium confidence

Chart, bar chart

Description automatically generated

Graphical user interface, application

Description automatically generated

Chart, bar chart

Description automatically generated Chart

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

Chart, bar chart

Description automatically generated

Chart, waterfall chart

Description automatically generated