

Melissa Young
DSC680 – T301 Applied Data Science
9.1 Project 3: Appendix

Data Dictionaries for data sources used within study.

Warranty Sales List from MAV Corp:

Column Name	Data Type	Description
CertificateNumber	object	Unique identifier for each certificate
ClosingDate	datetime64[ns]	Date when the closing took place
WarrantyEnrollmentDate	datetime64[ns]	Date when the warranty was enrolled
ActivatedAt	datetime64[ns]	Date when the certificate was activated
WarrantyLimit	float64	Financial limit of the warranty
BuilderNumber	float64	Numeric identifier for the builder
BuilderName	object	Name of the builder
BuilderLawsonCode	int64	Lawson code associated with the builder
City	object	City where the property is located
StateId	object	State identifier (e.g., state abbreviation)
ZipCode	object	Postal code for the property location
Region	object	Region where the property is located (may be a broader classification than city)
County	object	County where the property is located
LegacyPlanCode	object	Code representing the legacy plan associated with the certificate
Premium	float64	Premium amount associated with the certificate

Tampa MSA Builders list from HubSpot:

Column Name	Data Type	Description
Record ID	int64	Unique identifier for each record
Company name	object	Name of the company
City	object	City where the company is located
State/Region	object	State or region where the company is located

Census Data for New Residential Sales:

Column Name	Data Type	Description
Period	int64	Time period of the data record
Sold during period	int64	Region Number of units sold during the period
Unnamed: 2	North-East	Region Number of units sold during the period
Unnamed: 3	Mid-West	Region Number of units sold during the period
Unnamed: 4	South	Region Number of units sold during the period
Unnamed: 5	West	Region Number of units sold during the period
For sale at end of period	int64	Region Number of units for sale at the end of the period
Unnamed: 7	North-East	Region Number of units for sale at the end of the period
Unnamed: 8	Mid-West	Region Number of units for sale at the end of the period
Unnamed: 9	South	Region Number of units for sale at the end of the period
Unnamed: 10	West	Region Number of units for sale at the end of the period
Months' supply	int64	Supply of units in terms of months
Median sales price (\$)	float64	Median sales price of units
Average sales price (\$)	float64	Average sales price of units

Census Data for New Residential Permitting:

Column Name	Data Type	Description
Year	int64	Year of the data record
CSA	int64	Combined Statistical Area code
CBSA	int64	Core-Based Statistical Area code
Name	object	Name of the CBSA or CSA
Total	int64	Total number of housing units authorized
1 Unit	int64	Number of single-unit housing units authorized
2 Units	int64	Number of two-unit housing units authorized
3 and 4 Units	int64	Number of three and four-unit housing units authorized
5 Units or More	int64	Number of housing units authorized in buildings with five or more units
Total \$ Value	int64	Total dollar value of all housing units authorized
\$ 1 Unit	int64	Dollar value of single-unit housing units authorized
\$ 2 Units	int64	Dollar value of two-unit housing units authorized
\$ 3 and 4 Units	int64	Dollar value of three and four-unit housing units authorized
\$ 5 Units or More	int64	Dollar value of housing units authorized in buildings with five or more units
Avg \$ Total Unit	float64	Average dollar value of all housing units authorized
Avg \$ 1 Unit	float64	Average dollar value of single-unit housing units authorized
Avg \$ 2 Unit	float64	Average dollar value of two-unit housing units authorized
Avg \$ 3-4 Unit	float64	Average dollar value of three and four-unit housing units authorized
Avg \$ 5+ Unit	float64	Average dollar value of housing units authorized in buildings with five or more units

Region Mapping Definitions:

Column Name	Data Type	Description
Northeast	object	States in the Northeast region of the United States
Midwest	object	States in the Midwest region of the United States
South	object	States in the South region of the United States
West	object	States in the West region of the United States