Data Tables Schema

listings

Descriptive information on tens of thousands of Airbnb listings along the U.S. West Coast.

*59,824 rows & 29 columns.* Size: ~30MB. Source: [Airbnb](https://www.airbnb.com).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| accommodates | INTEGER | Number of customers the property can fit |
| amenities | STRING | List of amenities available in the property, comma-delimited |
| availability\_30 | INTEGER | Number of nights the property is available in the following month |
| bathrooms | INTEGER | Number of bathrooms in the property |
| bed\_type | STRING | Type of the beds available |
| bedrooms | INTEGER | Number of bedrooms in the property |
| beds | INTEGER | Number of beds in the property |
| cancellation\_policy | STRING | Cancellation Flexibility level |
| city | STRING | Neighborhood/city the property located in |
| has\_availability | STRIG | Whether the property has availability |
| host\_id | INTEGER | ID of the property host |
| id | INTEGER | ID of the listed property |
| instant\_bookable | STRING | Whether the property allows for instant booking |
| latitude | FLOAT | Latitude of property |
| longitude | FLOAT | Longitude of property |
| metropolitan | STRING | Metropolitan area the property located in |
| name | STRING | Name of the property |
| price | FLOAT | One-night rental price of the property, in U.S. dollars |
| property\_type | STRING | Type of the property |
| review\_scores\_checkin | INTEGER | Customer review of the property’s check-in process |
| review\_scores\_cleanliness | INTEGER | Customer review of the property’s cleanliness |
| review\_scores\_communication | INTEGER | Customer review of the property owner’s communication |
| review\_scores\_location | INTEGER | Customer review of the property’s location |
| review\_scores\_rating | INTEGER | Overall customer review of the property’s rating |
| review\_scores\_value | INTEGER | Customer review of the rental value |
| room\_type | STRING | Type of the rooms available |
| state | STRING | State the property located in |
| weekly\_price | FLOAT | One-week rental price of the property, in U.S. dollars |
| zipcode | INTEGER | Zipcode of the property’s location |

calendar

Basic information on the Airbnb listing calendar from 2007 – 2017.

*~20 million rows & 5 columns.* Size: ~55MB zipped, ~675MB unzipped. Source: [Airbnb](https://www.airbnb.com).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| listing\_id | INTEGER | ID of the listed property |
| date | STRING | Date for which data is available. Format yyyy-mm-dd. |
| available | STRING | Whether the property is available at certain date – ‘t’ for true and ‘f’ for false |
| price | FLOAT | The price of a one-night stay, in U.S. dollars |
| metropolitan | STRING | The metropolitan area the listed property is located in |

demographics

Demographic data (population, age, education level, etc.) organized alphabetically by city and state, taken from 2011 – 2015.

*33,120 rows & 26 columns.* Size: ~0.5MB. Source: [U.S. Census](https://www.census.gov/programs-surveys/acs/).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| zipcode | INTEGER | Zipcode of the region |
| age brackets (13 total) | INTEGER | Number of people in given age bracket |
| households | INTEGER | Total households (including singles) |
| Income brackets (9 total) | FLOAT | Percentage of households in given income bracket |
| median\_household\_income | INTEGER | Median household income |
| mean\_household\_income | INTEGER | Mean household income |

econ\_state

Economic data (GDP, per capita income, unemployment rate, etc.) for all 50 states and the District of Columbia, taken from 1980 – 2016.

*51 rows & 519 columns.* Size: ~0.2MB. Source: [U.S. Bureau of Economic Analysis](https://www.bea.gov).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| state | STRING | State name |
| gdp (47 total) | INTEGER | Gross domestic product by quarter |
| per\_capita\_income (267 total) | INTEGER | Per capita income by quarter |
| unemployment\_rate (204 total) | FLOAT | Unemployment rate by month |

real\_estate

Monthly data that represent real estate prices, organized alphabetically by city and state. Specifically, monthly values from the Zillow Home Value Index (ZHVI) and the Zillow Rent Index (ZRI) for all homes (single-family residence & condo/co-op).

*29,111 rows & 261 columns.* Size: ~10MB zipped, ~40MB unzipped. Source: [Zillow](http://www.zillow.com/research/data/).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| type | STRING | Real estate value type – ‘ZHVI’ or ‘ZRI’ |
| zipcode | INTEGER | Zipcode of the region |
| city | STRING | City that region is located in |
| state | STRING | State that region is located in |
| metro | STRING | Metropolitan area that region is located in |
| county | STRING | County that region is located in |
| size\_rank | INTEGER | Rank of size of region (smaller number means larger region) |
| ZHVI or ZRI | FLOAT | Measured from Apr. 1996 – Jun. 2017 |

venues

Important details about hundreds of thousands of venues in the metropolitan areas included in ***listings***.

*267,958 rows & 7 columns.* Size: ~8MB zipped, ~30MB unzipped. Source: [Google Places](https://developers.google.com/places/).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| city | STRING | Name of the city the business is located in |
| id | STRING | Unique ID of the business assigned by Google Places |
| latitude | FLOAT | Latitude coordinate of the business’s location |
| longitude | FLOAT | Longitude coordinate of the business’s location |
| name | STRING | Name of the business |
| rating | FLOAT | Customer rating of the business |
| types | STRING | List of venue types suitable for describing the business, comma-delimited |