

team08finalproject

Info

Objects

Metadata - Preview

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	Residential.csv	csv	December 8, 2024, 17:02:37 (UTC-05:00)	23.0 MB	Standard

ChromeFileEditViewHistoryBookmarksProfilesTabWindowHelp

FA24_Final_Pr xHome xTeam08 Final xLaunch AWS xConsole Home xteam08finalpr xQuery editor xTable Detail - / x+

us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history

Search[Option+S]

N. Virginiavociabs/user3480416=Annadi_Sai_Siddu_Vardhan_Reddy @ 0367-70...

Amazon AthenaQuery editor

EditorRecent queriesSaved queriesSettings

Workgroupprimary

Recent queries (29)

Search recent queries

Cancel

Download results

Download CSV

< 1 2 >

	Execution ID	Query	Start time	Status	Run time
	1068ffaf-a436-4b75-840c-18c39b987554	SELECT * FROM "default"."residential_data" limit 10	2024-12-08T17:10:51.002-05:...	Completed	602 ms
	5dc6087c-e8f9-4174-addc-8010a37dbfa7	CREATE EXTERNAL TABLE IF NOT EXISTS residential_data (ssl ...	2024-12-08T17:10:42.998-05:...	Completed	369 ms
	75b76a0b-05b8-4c59-befc-0fa55a44cca2	DROP TABLE `residential_data`	2024-12-08T17:09:33.593-05:...	Completed	596 ms
	76cd7e9b-76ff-4069-b189-fb51f3c870d9	SELECT * FROM "default"."residential_data" limit 10	2024-12-08T17:09:19.938-05:...	Completed	588 ms
	633e7cf6-beb1-44e3-8b6d-fbb536e1cdf4	CREATE EXTERNAL TABLE IF NOT EXISTS residential_data (ssl ...	2024-12-08T17:09:08.769-05:...	Completed	408 ms
	03f8aefb-6172-4bcc-b23f-aef1710556c0	SELECT * FROM "default"."residential_data" limit 10	2024-12-08T17:08:52.920-05:...	Failed	365 ms
	2885d821-df26-4f77-9793-a4bed628216e	DROP TABLE `residential_data`	2024-12-08T17:08:34.151-05:...	Failed	1.446 sec
	125a0788-ed3c-4ff1-934e-272adc4a1024	SELECT * FROM "default"."residential_data" limit 10	2024-12-08T16:59:39.563-05:...	Completed	591 ms
	28bceedb-e753-49b9-8d7d-9dc92b7a6a1b	CREATE EXTERNAL TABLE IF NOT EXISTS residential_data (ssl ...	2024-12-08T16:57:24.067-05:...	Completed	344 ms
	cdd30984-b8a8-437b-b25d-53b602659653	SELECT * FROM residential_data09 LIMIT 10	2024-12-05T15:15:41.046-05:...	Completed	572 ms
	ca7f22d7-42fd-4551-aba7-736560ab4000	CREATE EXTERNAL TABLE IF NOT EXISTS residential_data09 (...	2024-12-05T15:15:17.291-05:...	Completed	406 ms
	fe82fa55-5361-4fc0-bd6f-29ef0f20ef91	CREATE EXTERNAL TABLE IF NOT EXISTS residential_data (ssl ...	2024-12-05T15:14:46.543-05:...	Completed	356 ms

CloudShellFeedback

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FA24_Final_Pr xHome xTeam08 Final xLaunch AWS AxConsole Home xteam08finalpr xQuery editor xTable Detail - x

us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/tables/view/residential_data?database=default&catalo...Search[Option+S]

N. Virginiavoclabs/user3490416Armad_Sai_Siddu_Vandhan_Reddy @ 0367-70...

residential_data

Table overviewData quality - new

Table details

Name
residential_data

Database
default

Description
-

Last updated
December 8, 2024 at 22:10:43

Classification
-

Location
s3://team08finalproject/

Connection
-

Deprecated
-

Column statistics
No statistics

Advanced properties

Schema

Partitions

Indexes

Column statistics - new

Schema (39)

View and manage the table schema.

Filter schemas

#	Column name	Data type	Partition key	Comment
1	ssl	string	-	-
2	bathrm	float	-	-
3	htf_bathrm	float	-	-
4	heat	float	-	-
5	heat_d	string	-	-
6	ac	string	-	-
7	num_units	float	-	-
8	rooms	float	-	-
9	bedrm	float	-	-
10	ayb	float	-	-
11	yr_rmdl	float	-	-
12	eyb	int	-	-
13	stories	float	-	-

Edit schema as JSONEdit schema

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FA24_Final_Pr

Home

Team08 Final

Launch AWS

Console Home

team08finalpr

Query editor

Table Detail

us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/1068faf-a436-4b75-840c-18c39b987654

Search [Option+S]

Amazon Athena

Query editor

0

Editor

Recent queries

Saved queries

Settings

Workgroup primary

Data

Data source

AwsDataCatalog

Catalog

None

Database

default

Tables and views

Create

Filter tables and views

Tables (1)

residential_data

Views (0)

Query 2

Query 3

1

SELECT * FROM "default"."residential_data" limit 10;

SQL

Ln 1, Col 1

Run again

Explain

Cancel

Clear

Create

Reuse query results

up to 60 minutes ago

Query results

Query stats

Completed

Time in queue: 109 ms

Run time: 602 ms

Data scanned: 695.87 KB

Copy

Download results

Results (10)

Search rows

#	ssl	bathrm	ht_bathrm	heat	heat_d	ac	num_units	rooms	bedrm	ayb	yr_rmdl	eyb	stories	saledate	price
1	SSL				HEAT_D	AC								SALEDATE	
2	0153 0069	4.0	1.0	8.0	Ht Pump	Y	1.0	12.0	6.0	1911.0	2021.0	1989	3.75	2019/08/19 04:00:00+00	3275000.0
3	0153 0094	3.0	1.0	1.0	Forced Air	Y	2.0	13.0	5.0	1912.0	2009.0	1978	3.0	1999/08/04 04:00:00+00	550000.0
4	0153 0095	3.0	1.0	7.0	Warm Cool	Y	2.0	6.0	4.0	1910.0	2022.0	1993	3.0	2019/07/22 04:00:00+00	1700000.0
5	0153 0096	3.0	1.0	7.0	Warm Cool	Y	2.0	11.0	4.0	1912.0	2000.0	1978	3.0	2021/10/27 04:00:00+00	1500000.0
6	0153 0100	4.0	1.0	1.0	Forced Air	Y	3.0	11.0	5.0	1912.0	2007.0	1993	3.0	2023/04/18 04:00:00+00	2232500.0
7	0153 0101	7.0	1.0	8.0	Ht Pump	Y	4.0	16.0	7.0	1895.0	2014.0	1993	3.0	2013/12/30 05:00:00+00	1320000.0
8	0153 0102	4.0	1.0	13.0	Hot Water Rad	Y	2.0	13.0	4.0	1895.0	2007.0	1978	3.0	2004/06/21 04:00:00+00	0.0

cloudShell Feedback

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🔔

Announcing new optimization features for Apache Iceberg tables
Optimize storage for Apache Iceberg tables with automatic snapshot retention and orphan file deletion. [Learn more](#)

✕

Tables

A table is the metadata definition that represents your data, including its schema. A table can be used as a source or target in a job definition.

Tables (1)

Last updated (UTC)
December 8, 2024 at 22:53:50

Delete

Add tables using crawler

Add table

View and manage all available tables.

🔍

Filter tables

<input type="checkbox"/>	Name	Database	Location	Classification	Deprecated	View data	Data quality	Column statistics
<input type="checkbox"/>	residential_data	default	s3://team08finalprojec	-	-	Table data	View data quality	View statistics

Chrome

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us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/notebook-instances

aws Services Search [Option+S]

N. Virginia

voclabs/user3480416=Annadi_Sai_Siddu_Vardhan_Reddy @ 0367-70...

Sun 5:56:02 PM

Amazon SageMaker AI

Getting started

▼ Applications and IDEs

Studio

Canvas

RStudio

TensorBoard

Profiler

Notebooks

Partner AI Apps NEW

▼ Admin configurations

Domains

Role manager

Images

Lifecycle configurations

SageMaker AI dashboard

Search

JumpStart

CloudShell Feedback

Success! Your notebook instance is being created.

Open the notebook instance when status is InService and open a template notebook to get started.

View details

Amazon SageMaker AI > Notebook instances

Notebook instances Info

Search notebook instances

< 1 >

	Name	Instance	Creation time	Status	Actions
<input type="radio"/>	team08finalprojectdeploy	ml.t3.xlarge	12/8/2024, 5:25:45 PM	InService	Open Jupyter Open JupyterLab
<input type="radio"/>	Team08deployment	ml.t3.medium	12/5/2024, 4:54:20 PM	InService	Open Jupyter Open JupyterLab

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team08finalprojectdeploy.notebook.us-east-1.sagemaker.aws/lab/tree/Team08%20Final%20Project%20Code.ipynb

File Edit View Run Kernel Git Tabs Settings Help

Filter files by name

Name	Last Modified
Finaldepo...	10 minutes ago
Residential...	26 minutes ago
result.html	26 minutes ago
site.html	26 minutes ago
Team08 Fi...	26 minutes ago

Launcher FinalDeployment.ipynb Team08 Final Project Code x

No Kernel

Final Project

Distributed & Scalable Data Engr - DSCI-6007-01

Comprehensive Analysis of Real Estate Market

Team Members:Sai Siddu Vardhan Reddy Annadi, Vinay Kumar Reddy Punuru, Shiva Priya Pillalamarri

Our project leverages data from Open Data DC, specifically focusing on the sale history of active properties listed in the District of Columbia's real property tax assessment roll. The dataset includes approximately 108,996 records with 39 columns, capturing various property attributes such as area, number of bedrooms, and other key features. It also provides sale information, including sale prices and transaction dates.

The primary objective of our analysis is to explore the relationship between these property attributes and their influence on sale prices. By applying statistical analysis and predictive modeling, we aim to identify the key drivers of property valuation.

Dataset Source: The dataset is sourced from Open Data DC's Computer Assisted Mass Appraisal - Residential dataset. : <https://opendata.dc.gov/datasets/DCGIS::computer-assisted-mass-appraisal-residential/explore>

Key Considerations for Analysis: This analysis will cover property sales from 2010 to 2024. Properties with a sale price of \$0 will be excluded from the analysis to ensure accuracy and relevance.

This approach will allow for a comprehensive understanding of how different property characteristics impact sale prices over time.

```
[11]: # Import Libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from datetime import datetime
from sklearn.linear_model import LinearRegression
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error, r2_score
from sklearn.metrics import accuracy_score, precision_score, recall_score
from sklearn.model_selection import cross_val_score, KFold
#from sklearn.metrics import plot_confusion_matrix
```

Simple 0 1

Waiting... No Kernel | Initializing Mode: Command Ln 1, Col 1 Team08 Final Project Code.ipynb 0

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FA24_ Home Team0 Launch Consol Launch Instanc team0 Query Table D Amazo Untitle Jupyter Ho x +

http://ec2-44-201-90-10.compute-1.amazonaws.com:8080

House Price Prediction

Bathrooms:

4

Bedrooms:

3

Grade:

7

Heating:

17

Condition:

7

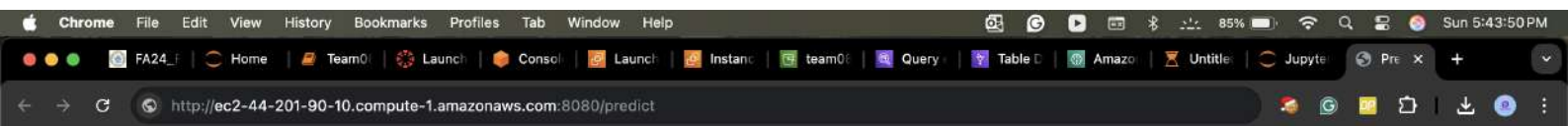
Square Footage:

3900

Days Passed:

15

Predict



Predicted House Price

Your estimated house price is:

281992.345324

This prediction is based on our latest machine learning model.

Need more information? [Contact us](#) for support.