



TAN ALODIA CLAUDIE NATHALI

DATA ANALYST PORTOFOLIO

Contains explanation about data analyst projects that utilizes several tools and skills

Projects are done individually over 1 month period of time.

Portofolio Website:
<https://tanalodiaclaudienathali.github.io/NathaliPortofolio.github.io/>

TOOLS

- Python 



- Excel 



- Tableau 



- SQL 



- Power BI 



PROJECTS

DATA ANALYST

Python

Automatic Crypto Website API Pull
Movie Correlation

SQL

Nashville Housing Data Cleaning

Excel

Bike Sales Dashboard

Tableau

US AirBnB Report
Covid-19 Vaccination Report

Power BI

Job Survey Report
Human Resources (HR) Report

PYTHON PROJECT Automatic Crypto Website API Pull

PROCESS:

DATA ACQUISITION

Ex) Acquire data from crypto website by using API pull

DATA PREPARATION

Ex) Use PANDAS to open and normalizes all of the data in a dataframe

Automate the API Pull and put into csv file using FOR loop to run api_runner function for every 1 minute

Transform the data for easier visualization process by using GROUP BY to check various values and put into STACK, then INDEX the data

DATA ANALYTICS

Ex) Use SEABORN and PYPLOT of MATPLOTLIB to check and finalize the data

DATA VISUALIZATION

Ex) Visualize crypto price using SEABORN

GOAL:

Automating Crypto
Website API Pull

LIBRARIES USED:

Pandas
Seaborn
Matplotlib

Link to project:

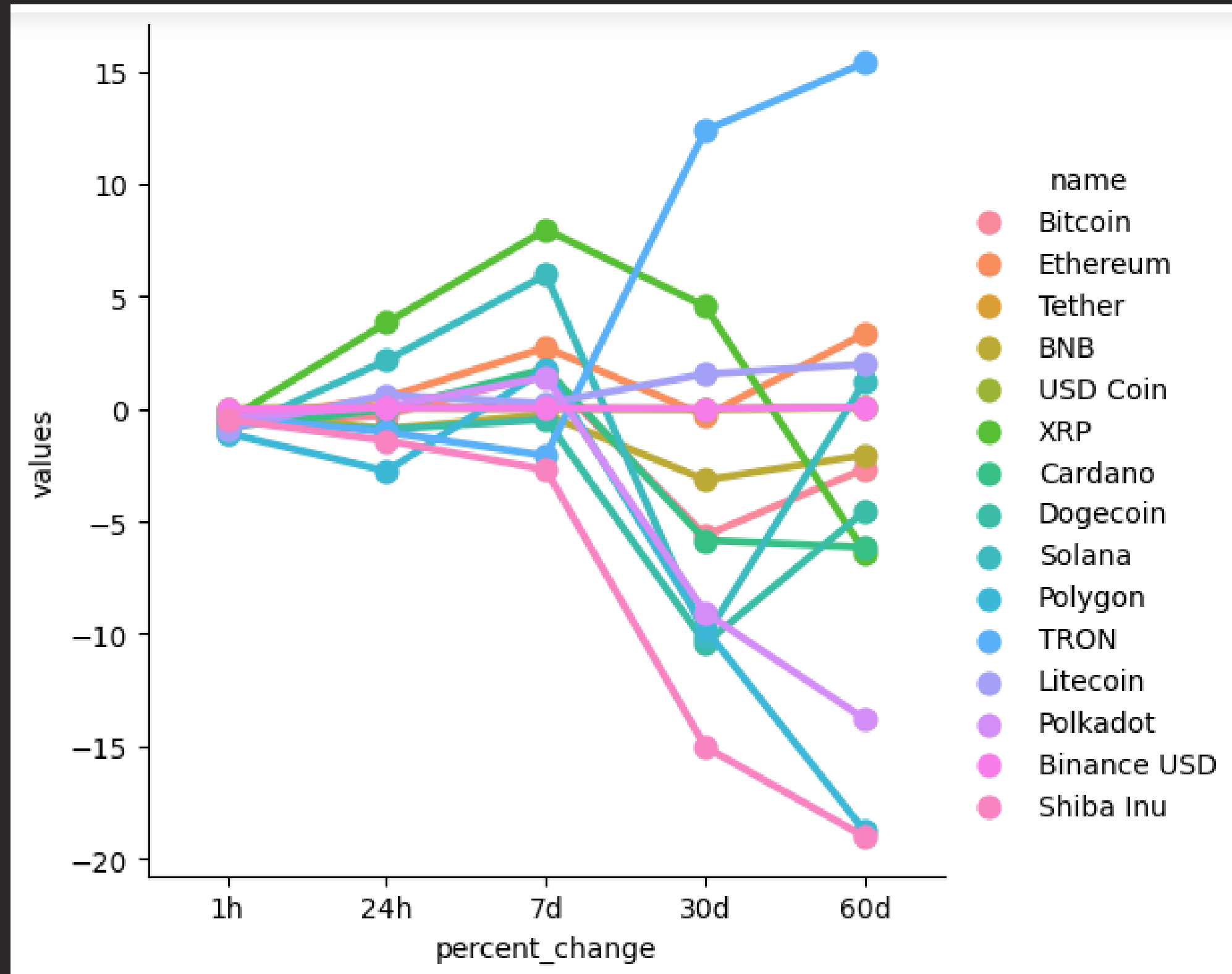
<https://github.com/TanAlodiaClaudieNathali/PortofolioProjects/blob/main/Crypto%20Website%20API%20Pull.py>

PYTHON PROJECT

Automatic Crypto Website API Pull

RESULT:

	name	percent_change	values
0	Bitcoin	1h	-0.75081
1	Bitcoin	24h	-0.27082
2	Bitcoin	7d	1.56012
3	Bitcoin	30d	-5.62660
4	Bitcoin	60d	-2.67566
5	Ethereum	1h	-0.50333
6	Ethereum	24h	0.50863
7	Ethereum	7d	2.71984
8	Ethereum	30d	-0.31244
9	Ethereum	60d	3.33155



PYTHON PROJECT

Movie Correlation Project

PROCESS:

DATA ACQUISITION

Data source acquired from Kaggle in CSV format and being read using PANDAS

DATA PREPARATION

Ex) Check for missing data using NUMPY

Convert data types using PANDAS

Remove null values using PANDAS

DATA ANALYTICS

Ex) Check 'budget' and 'gross earnings' relations using SCATTERPLOT and SEABORN

Check CORRELATION using PANDAS

DATA VISUALIZATION

Ex) Visualize CORRELATION using SEABORN

Link to project:

<https://github.com/TanAlodiaClaudieNathali/PortofolioProjects/blob/main/Movie%20Correlation%20Project.py>

GOAL:

Find factors that
hold correlation in
US movie Industry

LIBRARIES USED:

Numpy

Pandas

Seaborn

Matplotlib

PYTHON PROJECT

Movie Correlation Project

RESULT:

Votes and budget have the highest correlation to gross earnings in US movie industry

votes	budget	0.503924
budget	votes	0.503924
votes	gross	0.662457
gross	votes	0.662457
	budget	0.712196
budget	gross	0.712196
released	year	0.996187
year	released	0.996187
yearcorrect	year	0.996229
year	yearcorrect	0.996229
yearcorrect	released	0.999389
released	yearcorrect	0.999389
budget	budget	1.000000
writer	writer	1.000000
votes	votes	1.000000
star	star	1.000000
score	score	1.000000
runtime	runtime	1.000000
released	released	1.000000



PROCESS:

DATA ACQUISITION

Get data from Excel file and import to SQL Database Server

DATA PREPARATION

Data Manipulation:

Ex) Use CONVERT to standardize 'date' format

Break 'Owner Address' data into separate columns: State, City, Address

Synchronize values using CASE

Data Cleaning:

Ex) Remove duplicates using CTE

Remove unused columns using DROP

GOAL:

Focus on cleaning
Nashville Housing
Data

Link to project:

https://github.com/TanAlodiaClaudieNathali/PortofolioProjects/blob/main/Portfolio_Nashville%20Housing.sql

SQL PROJECT

Data Cleaning Project

EXAMPLE:

before

PropertyAddress	SaleDate	OwnerName	OwnerAddress
1808 FOX CHASE DR, GOODLETTSVILLE	2013-04-09 00:00:00.000	LEE, JEFFREY & NANCY	1420 SPRINGFIELD HWY, GOODLETTSVILLE, TN
1832 FOX CHASE DR, GOODLETTSVILLE	2014-06-10 00:00:00.000	NULL	NULL
1864 FOX CHASE DR, GOODLETTSVILLE	2016-09-26 00:00:00.000	NULL	NULL
1853 FOX CHASE DR, GOODLETTSVILLE	2016-01-29 00:00:00.000	NULL	NULL
1829 FOX CHASE DR, GOODLETTSVILLE	2014-10-10 00:00:00.000	URRUTIA, CARLOS MIGUEL & REBECCA	629 GAYLEMORE DR, GOODLETTSVILLE, TN
1821 FOX CHASE DR, GOODLETTSVILLE	2014-07-16 00:00:00.000	SALDANA, ALMA J. & EDWARD A., II	633 GAYLEMORE DR, GOODLETTSVILLE, TN
2005 SADIE LN, GOODLETTSVILLE	2014-08-28 00:00:00.000	MCKINNEY, ROBERT K. & BETH E.	637 GAYLEMORE DR, GOODLETTSVILLE, TN
1917 GRACELAND DR, GOODLETTSVILLE	2016-09-27 00:00:00.000	MILLER, JAMES L. & EILEEN T.	2001 SADIE LN, GOODLETTSVILLE, TN
1428 SPRINGFIELD HWY, GOODLETTSVILLE	2015-08-14 00:00:00.000	SANDAGE, LEAH S.	644 GAYLEMORE DR, GOODLETTSVILLE, TN
1420 SPRINGFIELD HWY, GOODLETTSVILLE	2014-08-29 00:00:00.000	VAUGHN, JOHN	1921 NORMERLE DR, GOODLETTSVILLE, TN
2209 KAYLA DR, GOODLETTSVILLE	2015-04-14 00:00:00.000	PARKS, KRISTEN LEIGH & WILLIAMS, PAM...	1916 NORMERLE DR, GOODLETTSVILLE, TN
109 BAILEY VIEW CT, GOODLETTSVILLE	2013-12-12 00:00:00.000	ANGELL, MARGO G. & CHARLES D.	2050 GRACELAND DR, GOODLETTSVILLE, TN
1900 TINNIN RD, GOODLETTSVILLE	2015-07-13 00:00:00.000	DOSS, GLEN KEVIN & ANGELA DAWN	2034 GRACELAND DR, GOODLETTSVILLE, TN
629 GAYLEMORE DR, GOODLETTSVILLE	2013-06-07 00:00:00.000	BRAKE, MICHAEL E. & ERIN L.	811 BENTON CT, GOODLETTSVILLE, TN
633 GAYLEMORE DR, GOODLETTSVILLE	2014-06-30 00:00:00.000	BENJAMIN, DAVID AND LINDA REVOCABLE	331 VIEW RIDGE DR, GOODLETTSVILLE, TN

after

SaleDateConverted	PropertySplitAddress	PropertySplitCity	OwnerSplitAddress	OwnerSplitCity
2013-04-09	1808 FOX CHASE DR	GOODLETTSVILLE	1808 FOX CHASE DR	GOODLETTSVILLE
2014-06-10	1832 FOX CHASE DR	GOODLETTSVILLE	1832 FOX CHASE DR	GOODLETTSVILLE
2016-09-26	1864 FOX CHASE DR	GOODLETTSVILLE	1864 FOX CHASE DR	GOODLETTSVILLE
2016-01-29	1853 FOX CHASE DR	GOODLETTSVILLE	1853 FOX CHASE DR	GOODLETTSVILLE
2014-10-10	1829 FOX CHASE DR	GOODLETTSVILLE	1829 FOX CHASE DR	GOODLETTSVILLE
2014-07-16	1821 FOX CHASE DR	GOODLETTSVILLE	1821 FOX CHASE DR	GOODLETTSVILLE
2014-08-28	2005 SADIE LN	GOODLETTSVILLE	2005 SADIE LN	GOODLETTSVILLE
2016-09-27	1917 GRACELAND DR	GOODLETTSVILLE	1917 GRACELAND DR	GOODLETTSVILLE
2015-08-14	1428 SPRINGFIELD HWY	GOODLETTSVILLE	1428 SPRINGFIELD HWY	GOODLETTSVILLE
2014-08-29	1420 SPRINGFIELD HWY	GOODLETTSVILLE	1420 SPRINGFIELD HWY	GOODLETTSVILLE
2015-04-14	2209 KAYLA DR	GOODLETTSVILLE	NULL	NULL
2013-12-12	109 BAILEY VIEW CT	GOODLETTSVILLE	NULL	NULL
2015-07-13	1900 TINNIN RD	GOODLETTSVILLE	NULL	NULL
2013-06-07	629 GAYLEMORE DR	GOODLETTSVILLE	629 GAYLEMORE DR	GOODLETTSVILLE

PROCESS:

DATA ACQUISITION

Data source in table format

DATA PREPARATION

Ex) Remove duplicates

Use Find and Replace to synchronize the data

Change the format of data

Categorize data using IF formula

DATA ANALYTICS & VISUALIZATION

Ex) Make PIVOT table to build the dashboard

Add Charts

Build and design the dashboard to show key information

GOAL:

Clean the data and
create KPI Dashboard

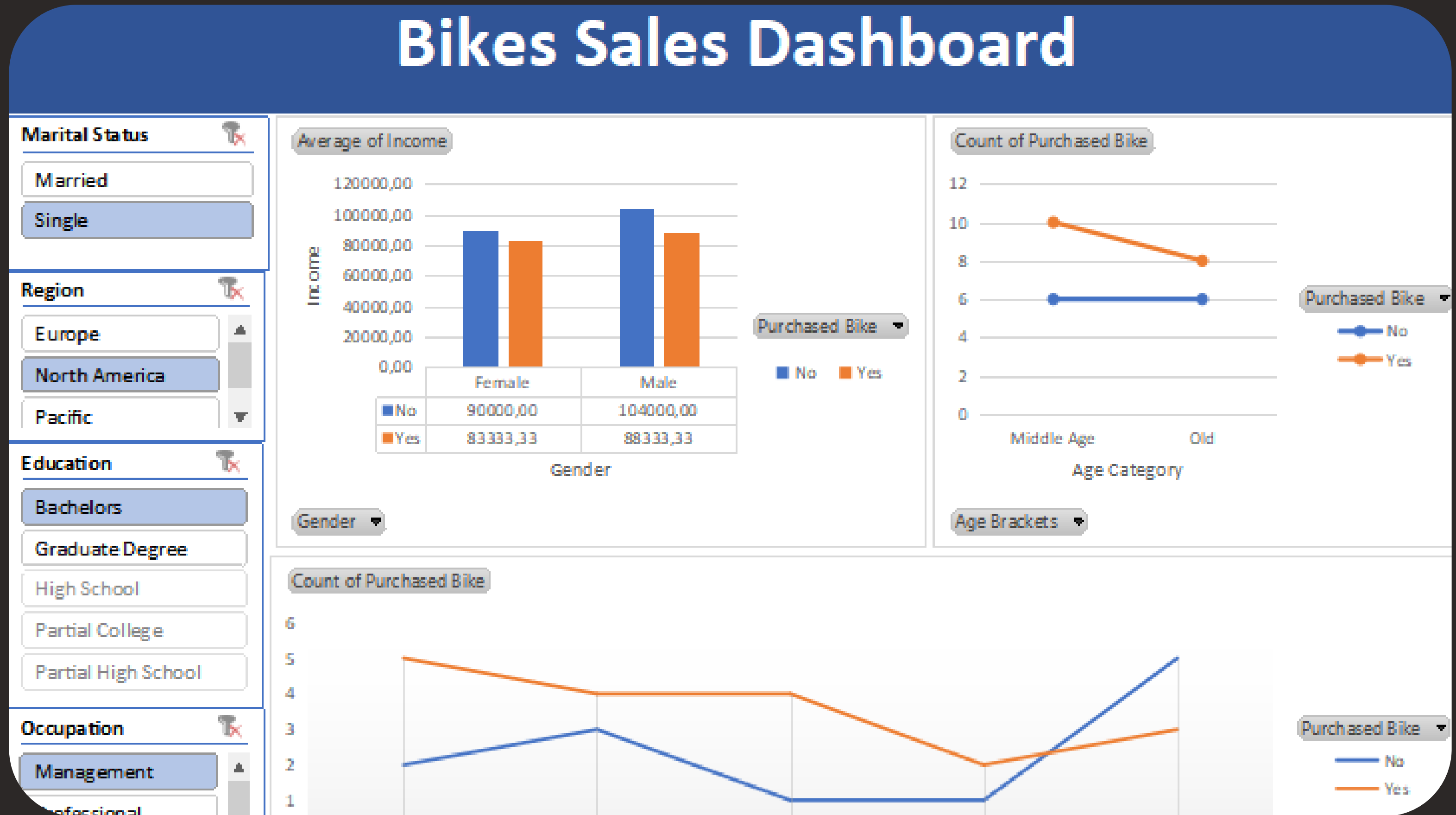
Key Information:

- Average income of customers
- Count of purchased bikes
- Filter based on marital status, region, education, and occupation of customers
- etc

Link to project:

<https://github.com/TanAlodiaClaudieNathali/PortofolioProjects/blob/main/Excel%20Project%20Dataset.xlsx>

RESULT:



US AirBnB Home Listings

PROCESS:

DATA ACQUISITION

Data source from Kaggle in CSV format

DATA PREPARATION

Ex) Join Tables

DATA ANALYTICS & VISUALIZATION

Ex) Visualize the KPIs

Build and design the dashboard

GOAL:

List details of US
AirBnB Houses

Key Information:

- Average price per number of bedrooms
- Price by Zipcode
- Revenue in 2016
- etc

Link to project:

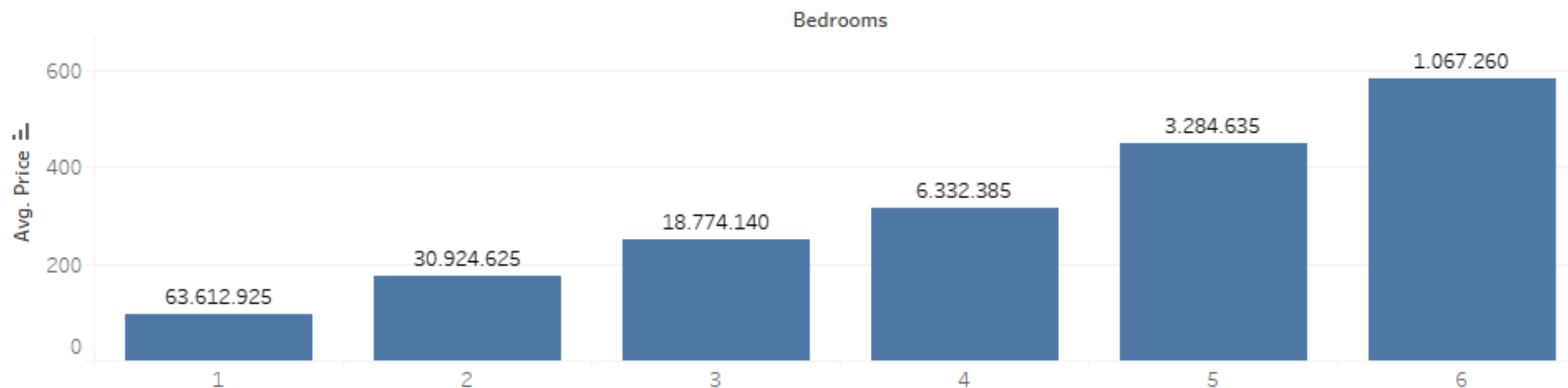
https://public.tableau.com/views/AirBnB2016AnalysisUS/Dashboard1?:language=en-US&:display_count=n&:origin=viz_share_link

TABLEAU PROJECT

US AirBnB Home Listings

RESULT:

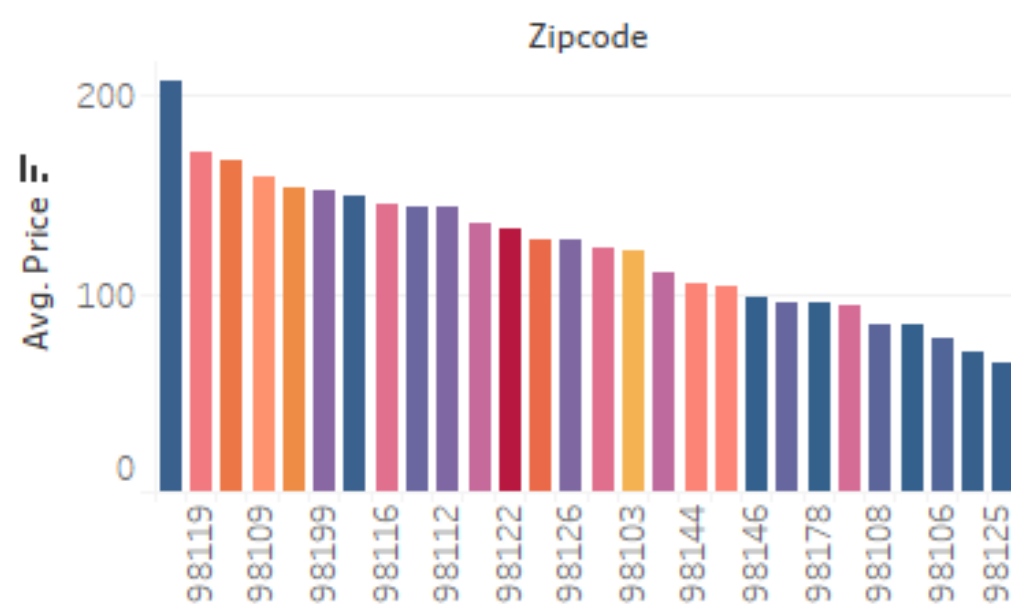
Avg Price Per Bedrooms



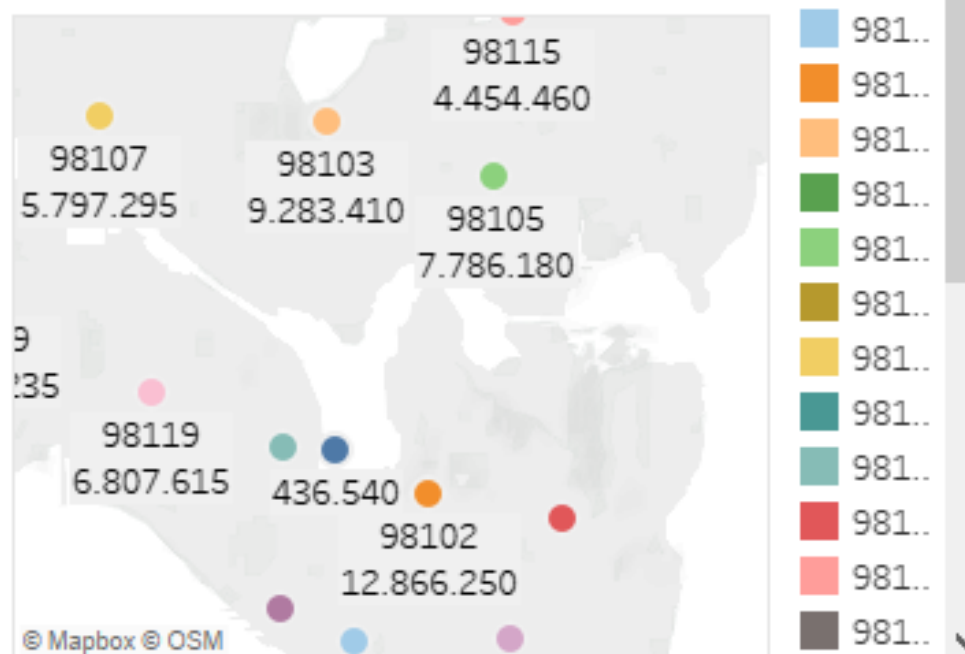
distinct
count of
Bedroom
Listings

Bedrooms	
0	288
1	1.811
2	483
3	206
4	55
5	20
6	5

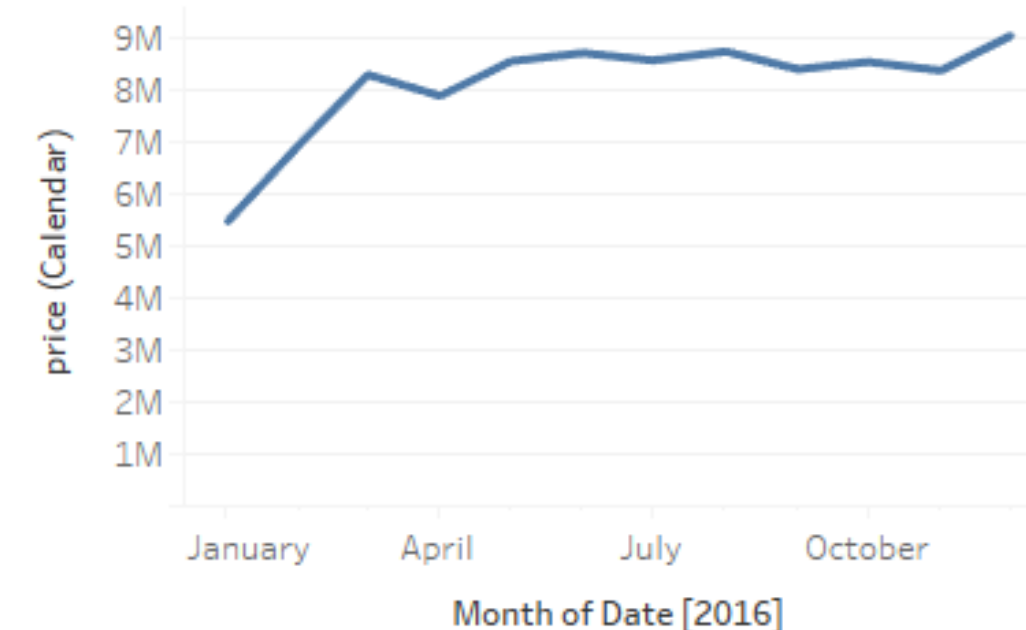
Price by Zipcode



Price per Zipcode



2016 Revenue



PROCESS:

DATA ACQUISITION

Data source from Kaggle in CSV format

DATA PREPARATION

Ex) Data cleaning and data manipulation

DATA ANALYTICS

Ex) Create KPIs by using CALCULATED FIELD to extract key points

DATA VISUALIZATION

Combine KPIs into dashboard and design the dashboard

GOAL:

Visualize the KPIs of Covid-19 Vaccinations

Key Information:

- Number of people partly and fully vaccinated
- Number of people unvaccinated
- Vaccination spread over the world
- etc

Link to project:

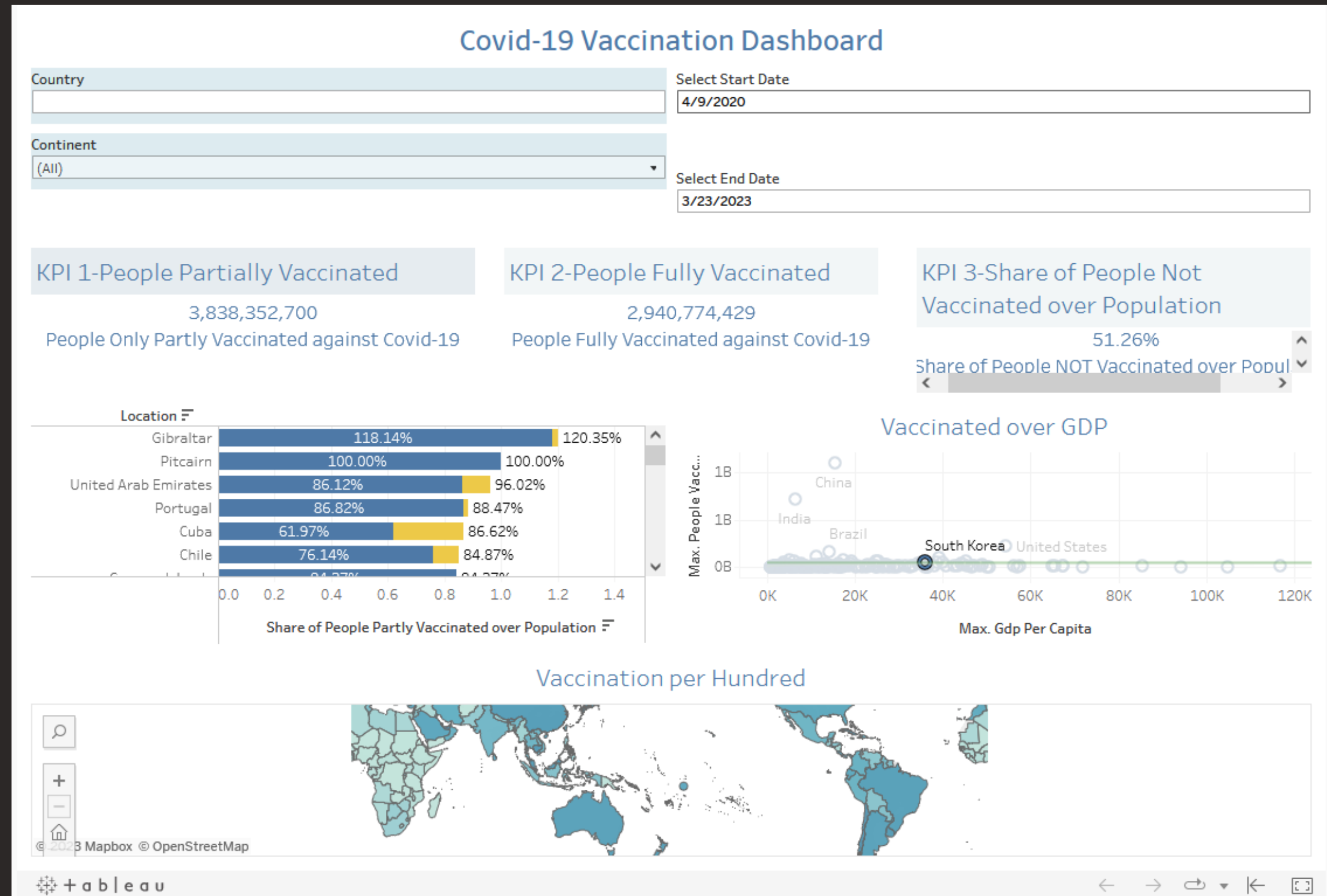
https://public.tableau.com/views/COVID-19VaccinationDashboard_16794119075500/Dashboard1?:language=en-US&:display_count=n&:origin=viz_share_link

TABLEAU PROJECT

RESULT:

Covid-19 Vaccination Report

Focuses on



PROCESS:

DATA ACQUISITION

Import CSV files to Power BI

DATA PREPARATION

Ex) Do data cleaning and transformation in POWER QUERY

Standardize data

Split column by delimiter

DATA ANALYTICS

Ex) Calculate key values, such as average salary

DATA VISUALIZATION

Visualize Key Information and design the dashboard

GOAL:

Visualize the KPIs of
Job Survey

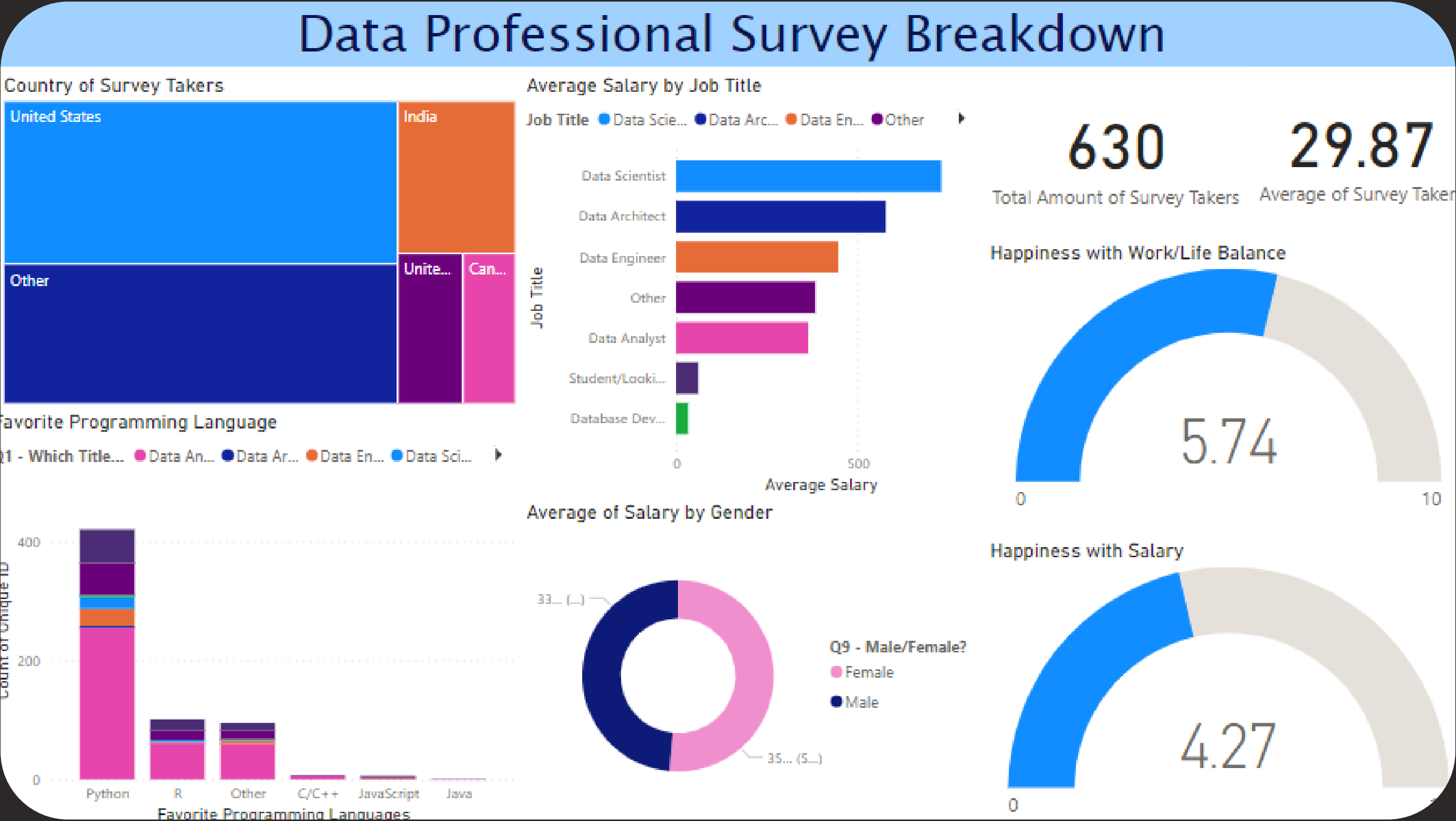
Key Information:

- Total amount of survey takers
- Average salary by job title and gender
- Satisfaction of salary and work/life balance
- etc

Link to project:

<https://github.com/TanAlodiaClaudieNathali/PortofolioProjects/blob/main/Data%20Professional%20Survey%20Breakdown.pbix>

RESULT:



PROCESS:

DATA ACQUISITION

Import CSV file to Power BI

DATA PREPARATION

Ex) Do data cleaning and transformation in POWER QUERY

Split column by delimiter

DATA ANALYTICS

Ex) Create new logics & measures to extract important data

Add conditional column to categorize data

DATA VISUALIZATION

Design dashboard using KPIs

Make navigation bar

GOAL:

Visualize the KPIs of HR Report

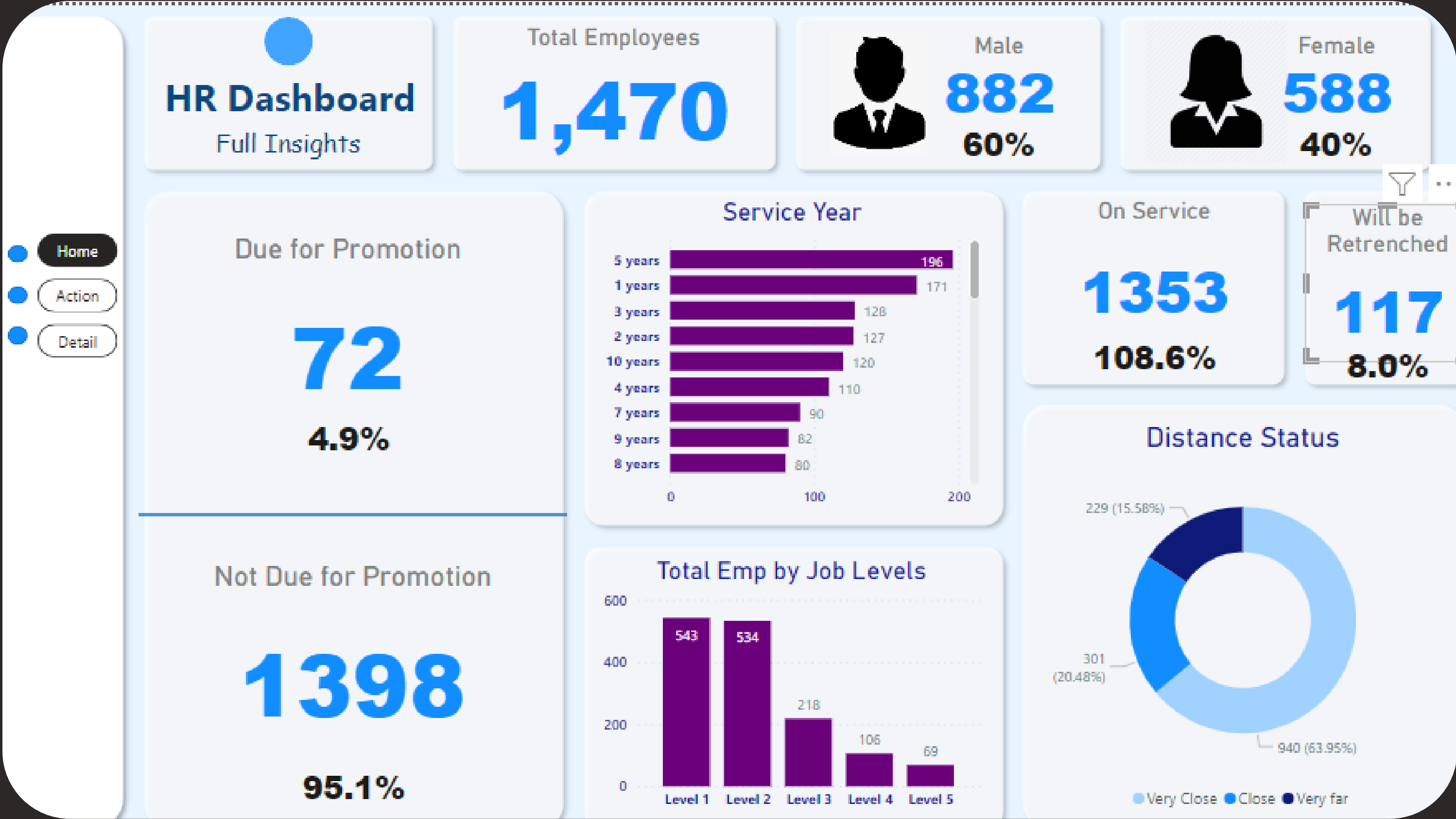
Key Information:

- Total Employees
- Total Employees by Job Levels
- Number of Employees that are due and not due for promotion
- Etc

Link to project:

<https://github.com/TanAlodiaClaudieNathali/PortofolioProjects/blob/main/HR%20Report.pbix>

RESULT:



CONTACT ME

(+82)10-9771-9012

alodiaclaudie03@gmail.com

South Korea, Gyeonggi-do,

Yongin-si, Suji-gu



THANK YOU ✦