
DATA ANALYST

Portfolio

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Hi! I'm Claudia

Aspiring data analyst with skills in analysis, data processing, and visualization gained through student projects and self-study. Very interested in how insights from data can influence decision-making in various fields.

A Bachelor of Atmospheric and Planetary Science graduate who has developed knowledge in atmospheric science and astronomy. A lifelong learner who enjoys learning new things, especially in professional development and is detail-oriented.

Education

Aug 2019 - Jan 2024 **Institut Teknologi Sumatera**
Bachelor of Science. GPA 3.63/4.00
Atmospheric and Planetary Science

Course

Big Data using Python - Digitalent KOMINFO

Data Analytics - Cisco

Microsoft Excel - MySkill

Data Analyst Career Track - DQLab



SKILLS & ABILITIES



Excel

Data cleaning, Pivot Table, VLOOKUP, HLOOKUP, Interactive Charts, Descriptive Statistics



Python

Analytic solution (using Library: Numpy & Pandas), Visualization (Matplotlib), Define Functions & Classes



Structured Query Language

Aggregate, Joins, Data Manipulation Language, Analyszing dataset with SQL queries



Power BI

Power BI

Basic Visualization

PROJECTS



Superstore Data E-commerce

MySkill Excel Case Study

Tools: Microsoft Excel

[Microsoft Excel File](#)

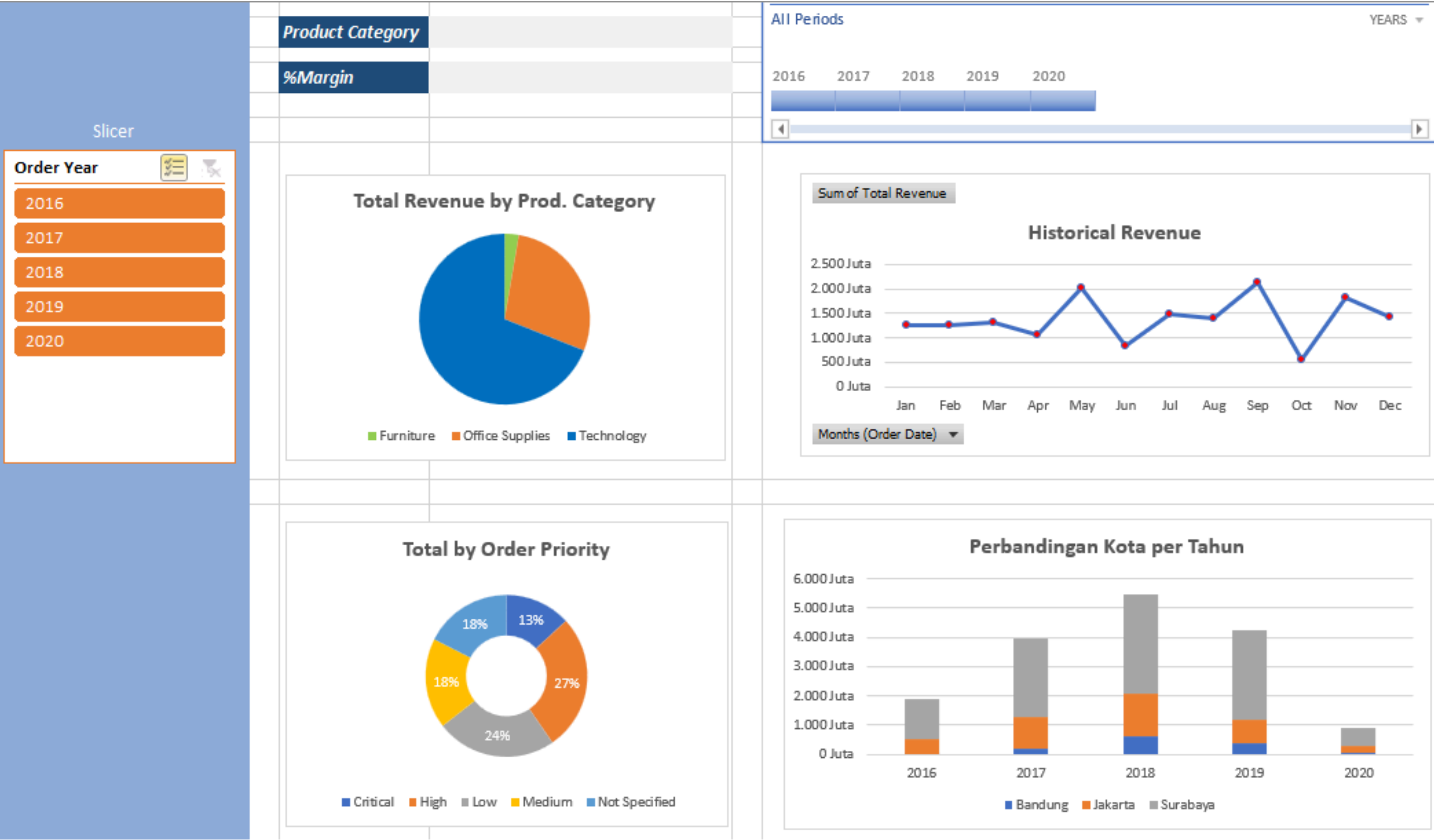
Processes

Data Cleaning: Missing values, typos, duplicates

Analysis: Descriptive statistics, identifying correlations

Visualization: Pivot chart and Dashboard

Description: This analysis wants to see the total revenue from various factors such as product category, city, time, and order priority.



Results: The highest revenue is obtained by the Technology product category, Surabaya city, and High order priority although the difference is not significant.

Store Sales Performance

DQLab Project Data Analysis

Tools: SQL

[Project File](#)

Skill Set

Standard Query Syntax

SQL Aggregate Function

Generate Insights

Description:

This analysis wants to see the overall performance of sales and the effectiveness of promotions on sales.

| years | product_category | sales | promotion_value | burn_rate_percentage |
|-------|------------------|------------|-----------------|----------------------|
| 2009 | Furniture | 1745027412 | 78996003 | 4.53 |
| 2009 | Technology | 1642558409 | 76180871 | 4.64 |
| 2009 | Office Supplies | 1226286860 | 59153453 | 4.82 |
| 2010 | Furniture | 1354767316 | 63829920 | 4.71 |
| 2010 | Technology | 1590357771 | 77200401 | 4.85 |
| 2010 | Office Supplies | 1113975520 | 56476618 | 5.07 |
| 2011 | Furniture | 1458613848 | 69246612 | 4.75 |
| 2011 | Office Supplies | 1078619360 | 56288607 | 5.22 |
| 2011 | Technology | 1574802978 | 89076337 | 5.66 |
| 2012 | Furniture | 1382074684 | 61230785 | 4.43 |
| 2012 | Technology | 1834218794 | 95281046 | 5.19 |
| 2012 | Office Supplies | 1266689680 | 69355811 | 5.48 |

| years | product_sub_category | sales |
|-------|--------------------------------|-----------|
| 2009 | Office Machines | 756929580 |
| 2009 | Chairs & Chairmats | 756435500 |
| 2009 | Binders and Binder Accessories | 426069440 |
| 2009 | Tables | 404092392 |
| 2009 | Telephones and Communication | 398933509 |
| 2010 | Office Machines | 593093560 |
| 2010 | Chairs & Chairmats | 547953900 |
| 2010 | Telephones and Communication | 378938551 |
| 2010 | Copiers and Fax | 368002720 |
| 2010 | Appliances | 341896840 |
| 2011 | Chairs & Chairmats | 622962720 |
| 2011 | Office Machines | 545856280 |
| 2011 | Tables | 505875008 |
| 2011 | Copiers and Fax | 404074080 |
| 2011 | Telephones and Communication | 392194658 |
| 2012 | Office Machines | 811427140 |
| 2012 | Chairs & Chairmats | 654168740 |
| 2012 | Telephones and Communication | 422287514 |
| 2012 | Tables | 388993784 |
| 2012 | Binders and Binder Accessories | 363879200 |

Results: From 2009-2012, the sub-categories of office machines and chairs & chairmats were always in the top 2 based on total sales. Meanwhile, based on burn rate percentage, the furniture product category is always at the top even though the expected maximum burn rate percentage is 4.5% which indicates a very effective promotion.

Tingkat Penyelesaian Pendidikan di Indonesia

Data Badan Pusat Statistik

Tools:

- Microsoft Excel
- Power BI

[Project File](#)

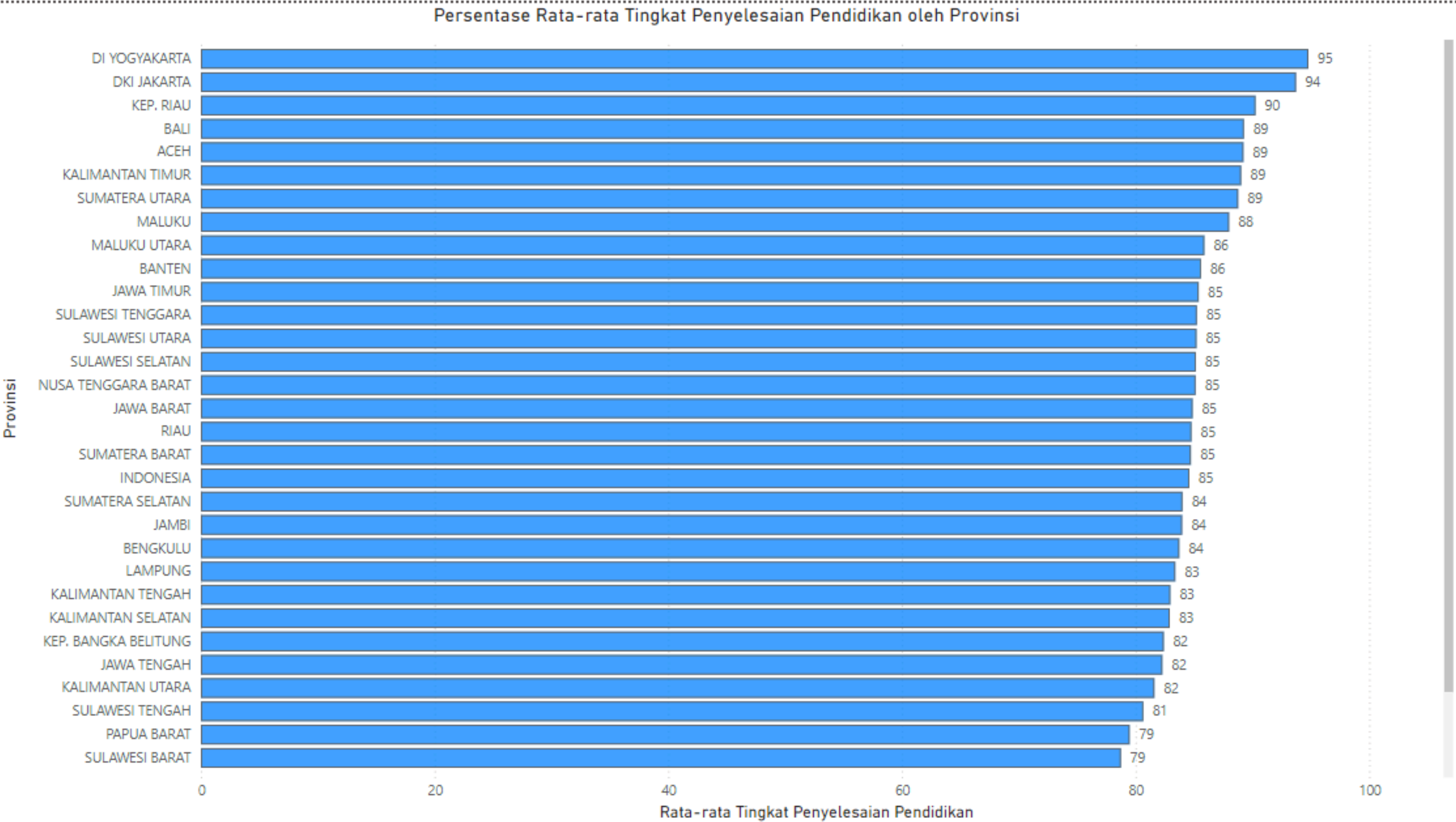
Processes

Preparing the data: convert to tabular format

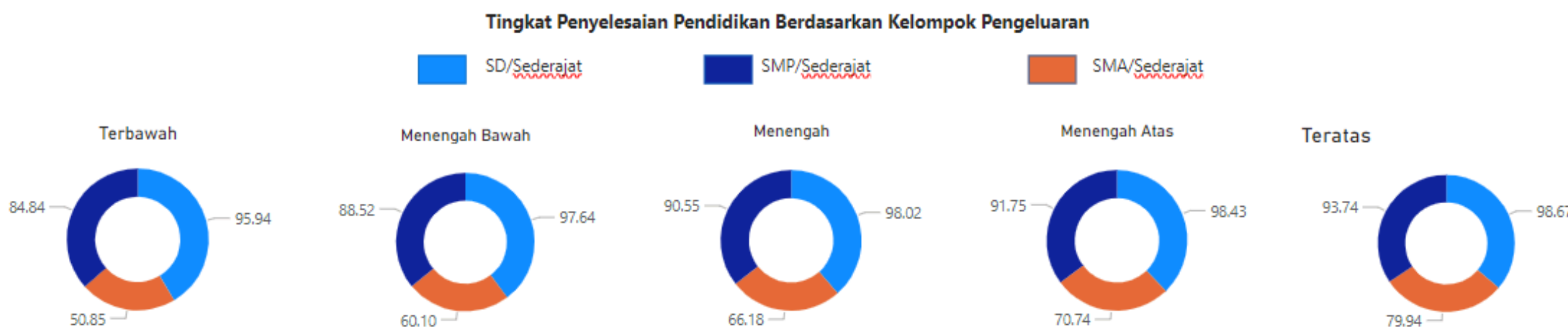
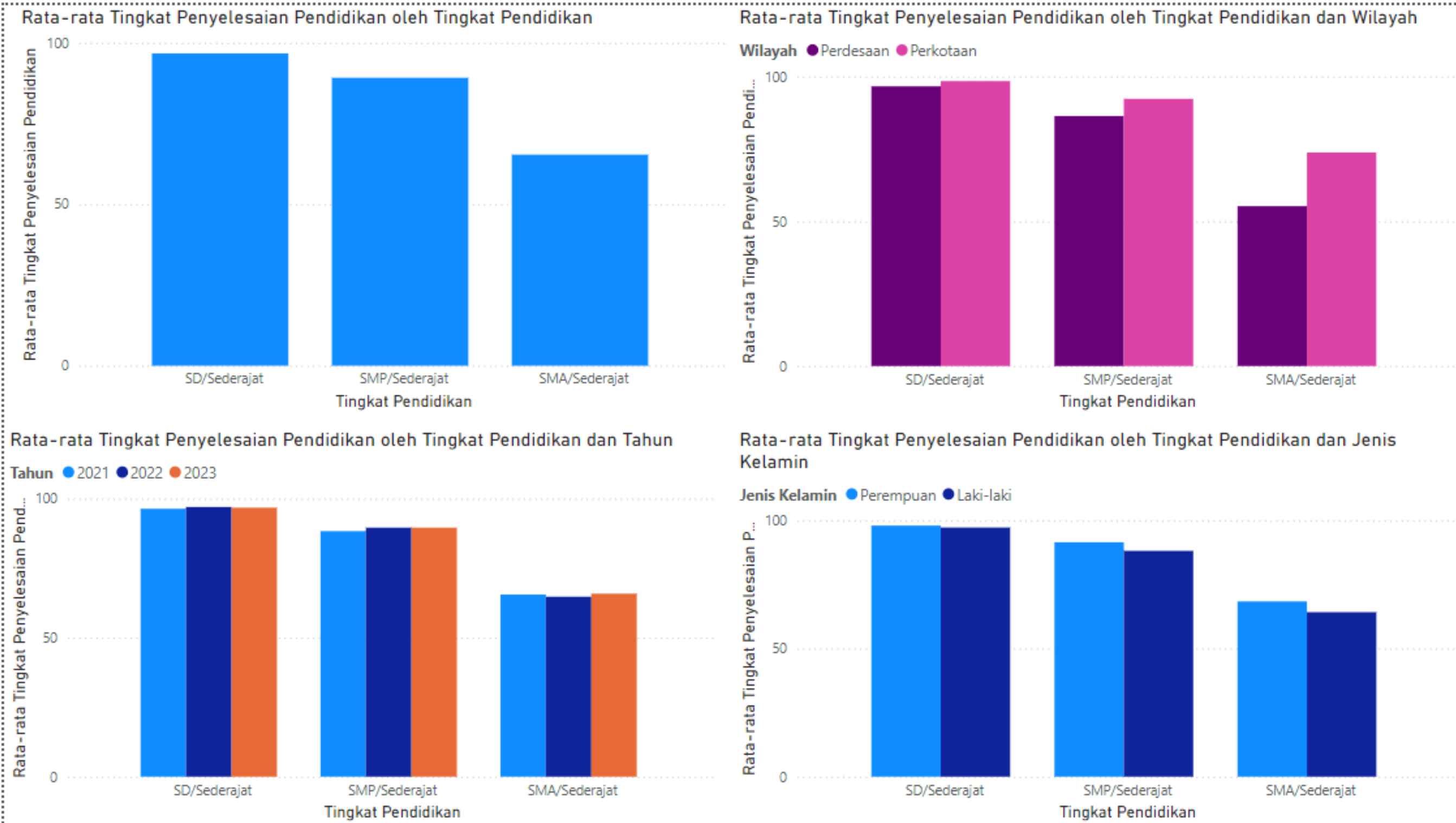
Analysis: Descriptive statistics, identifying correlations

Data Visualization

Description: This analysis aims to see what percentage of Indonesia's population successfully completes the education level based on certain factors.



Results: Based on the province, the highest level of education completion is in Yogyakarta with 89%, the lowest is Papua with 61%, while Central Kalimantan is at 83%.

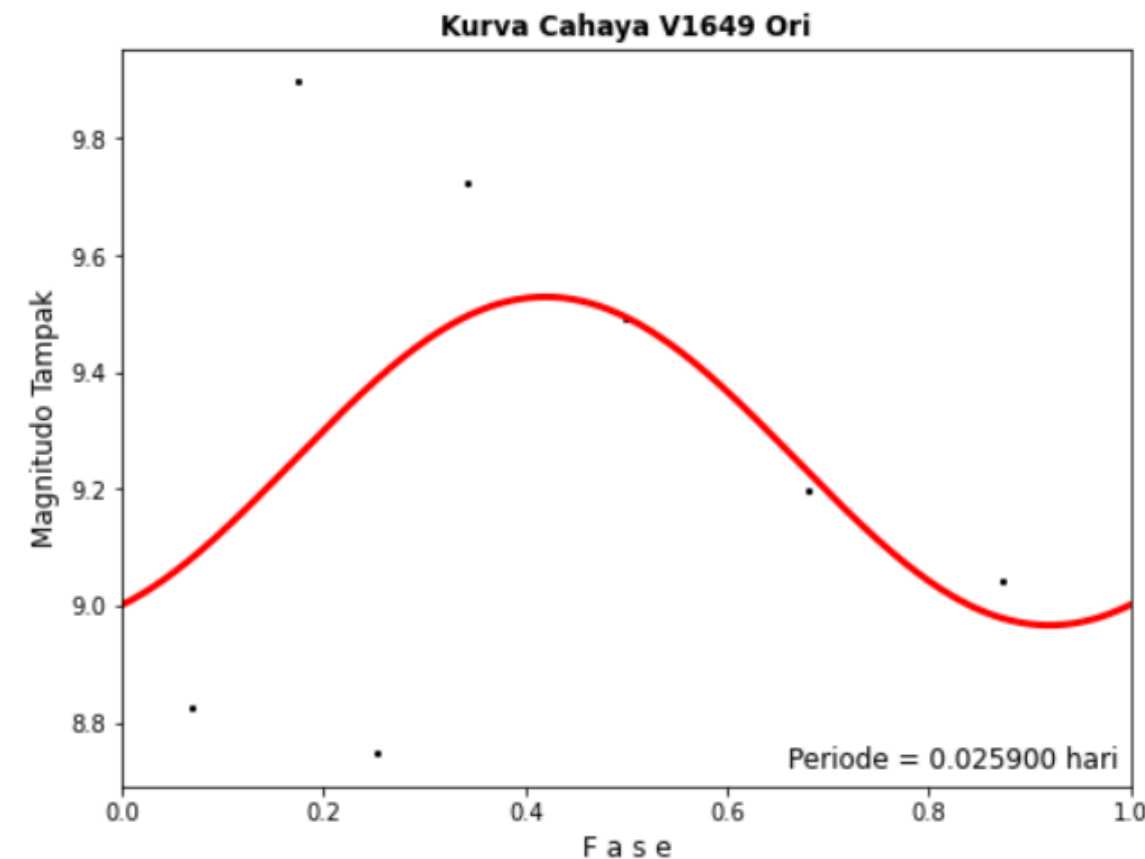
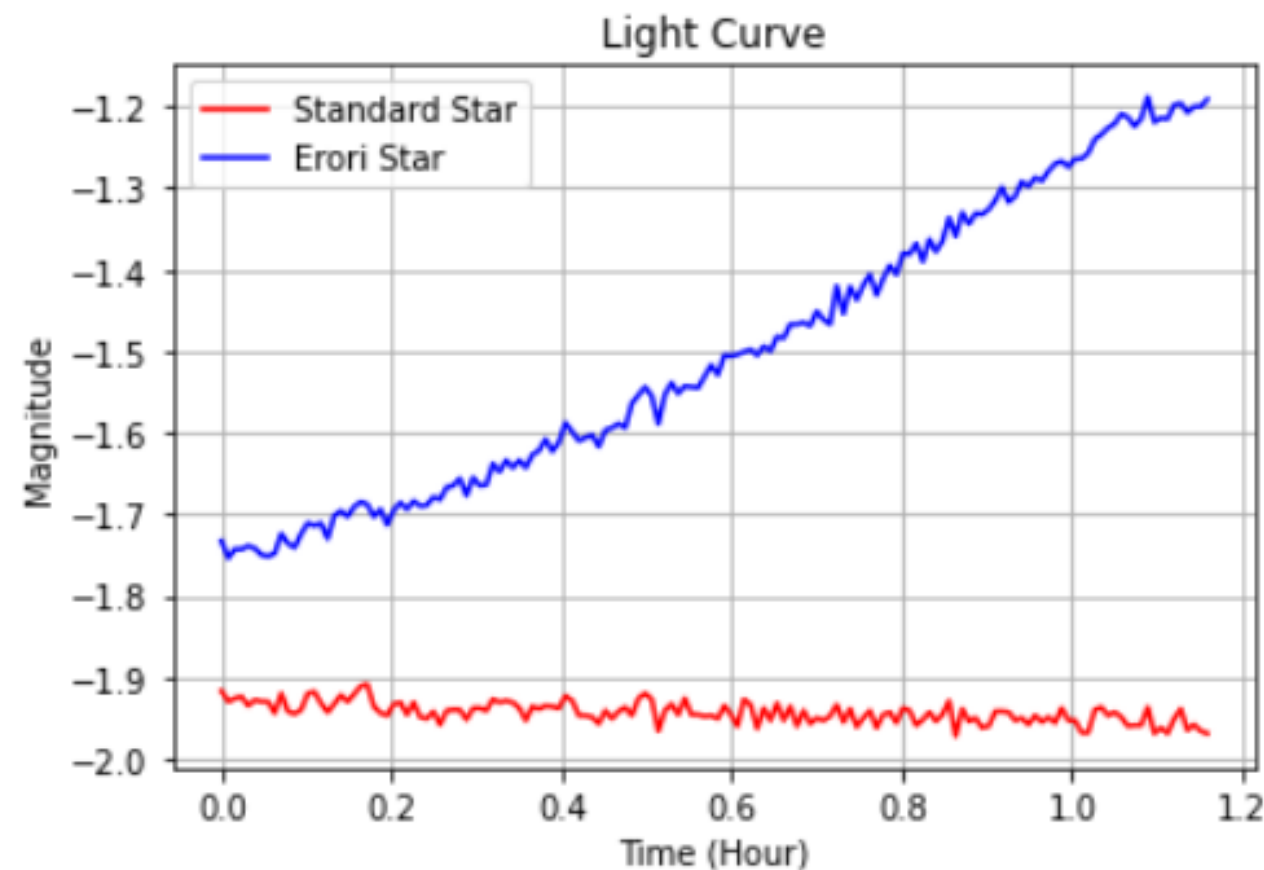
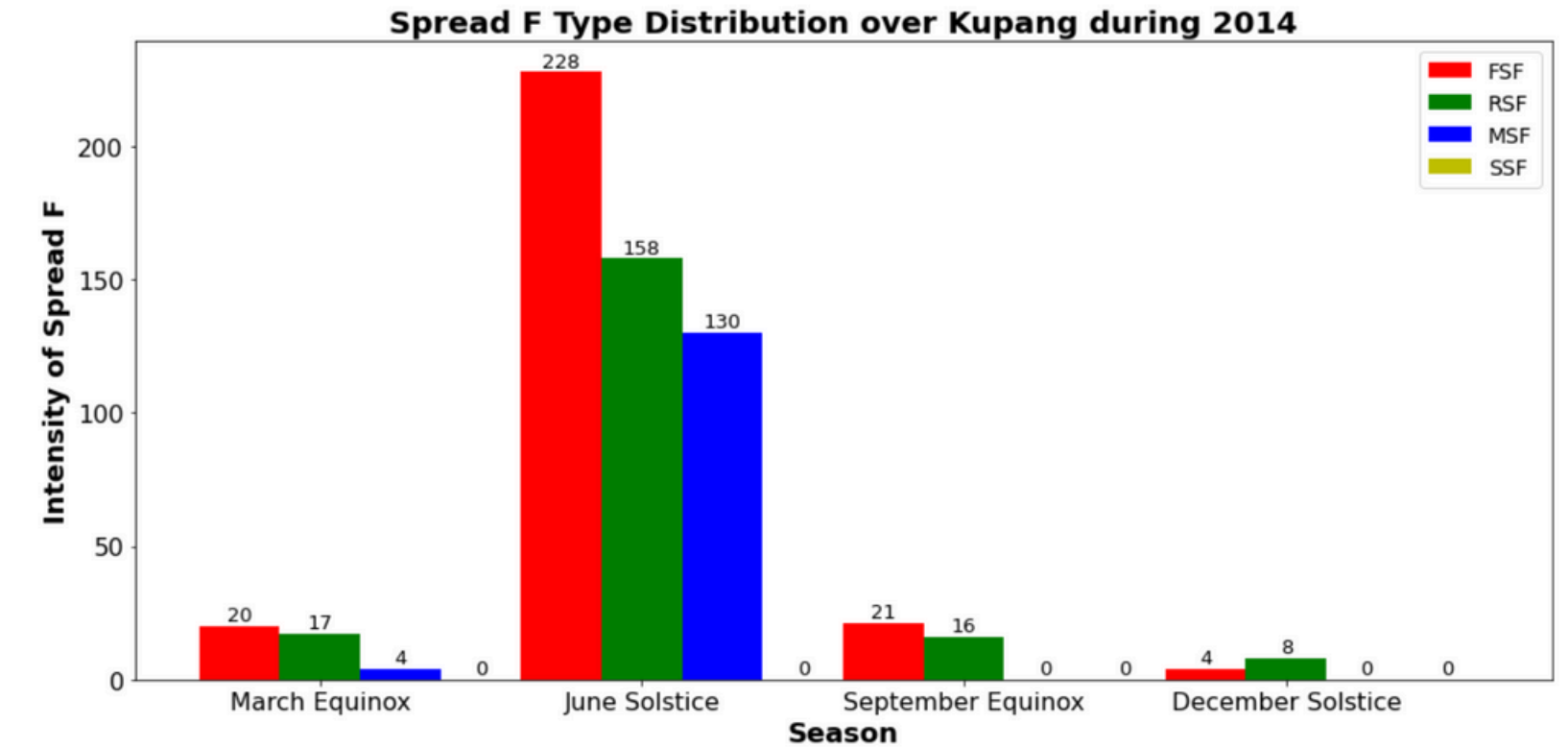
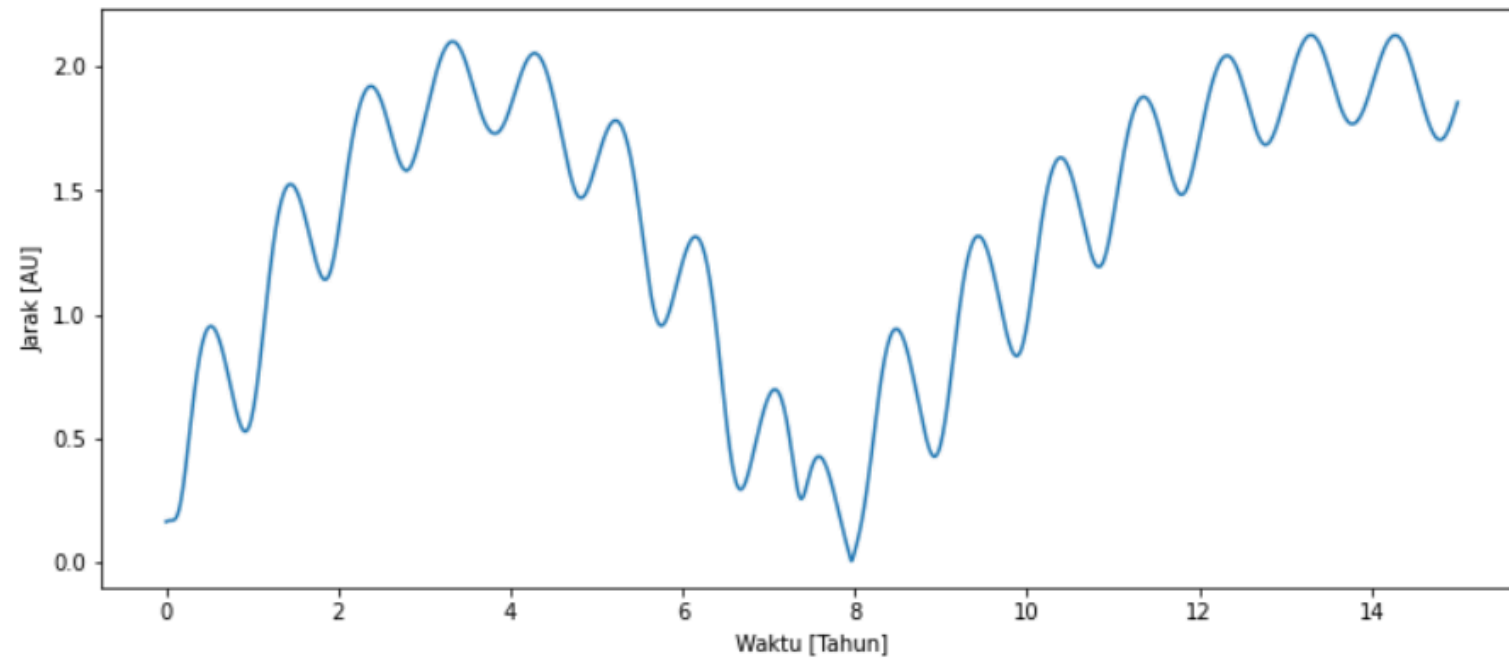


Results: The higher the level of education, the lower the completion rate. Women appear to complete more education than men. In addition, disparities are seen between rural and urban areas. Differences in education levels become more pronounced towards secondary school, which may be related to the number of schools, equitable distribution of facilities, and economic factors. It can be seen that 79% of the top group completed high school, while only 50% of the bottom group did.

Python on Student Projects

Institut Teknologi Sumatera

Jarak terdekat Asteroid 99942 Apophis dengan Bumi adalah 0.006498 AU yang akan terjadi 7.957958 tahun ke depan



Some examples of python applications in astronomy.

Click on the image or project file link

[Project File](#)

Certificate

[Certificate's Link](#)

**Thank
you.**

Let's Connect

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