

Kelompok 3

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Konteks

Sebagai seseorang yang baru atau akan memasuki dunia kerja, kita sering kali dihadapkan pada banyak pertanyaan yang membingungkan, seperti di mana kita sebaiknya bekerja, berapa gaji yang akan kita terima, dan apakah pendapatan tersebut akan mencukupi untuk kehidupan sehari-hari. Untuk membantu pekerja dalam membuat keputusan yang lebih baik, analisis ini menggunakan data dari Badan Pusat Statistik (BPS) dan Dinas Tenaga Kerja dan Transmigrasi untuk mengevaluasi pilihan tempat kerja berdasarkan faktor-faktor seperti pendapatan dan pengeluaran. Dalam konteks penelitian yang sangat ketat di dunia kerja, perencanaan yang baik sangat penting bagi pekerja agar mereka dapat merencanakan masa depan mereka dengan bijak berdasarkan pilihan yang mereka buat.

Pertanyaan

1. Kabupaten/Kota di Provinsi Jawa Barat dengan Upah Minimum 5 tertinggi dan 5 terendah di tahun 2023
2. Bagaimana tren Upah Minimum Kabupaten/Kota selama beberapa tahun terakhir?
3. Bagaimana korelasi antara pengeluaran per kapita, upah minimum, jumlah penduduk yang bekerja, dan angka garis kemiskinan per kapita?
4. Bagaimana persebaran data dari pengeluaran per kapita, upah minimum, jumlah penduduk yang bekerja, dan angka garis kemiskinan per kapita?

Import Libraries dan Dataset

- `bps-od_17106_jml_pengeluaran_per_kapita_kabupatenkota_data.csv`: dataset Pengeluaran Per Kapita Per Tahun dengan disagregasi Kabupaten/Kota dan Tahun.

• `disnaketrans-od_18868_datatup_upah_minimum_kabupatenkota_dlrh_prov_jabar_data.csv`: dataset Upah Minimum dengan disagregasi Kabupaten/Kota dan Tahun.

• `disnaketrans-od_15793_jumlah_penduduk_yang_bekerja_berdasarkan_kabupatenkota_data.csv`: dataset Jumlah Penduduk yang Bekerja dengan disagregasi Kabupaten/Kota dan Tahun.

• `bps-od_17110_angka_garis_kemiskinan_per_kapita_per_bulan_kabupaten_data.csv`: dataset Angka Garis Kemiskinan Per Kapita Per Bulan dengan disagregasi Kabupaten/Kota dan Tahun.

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import matplotlib.ticker as ticker
import seaborn as sns

# suppress scientific notation by setting float_format
pd.options.display.float_format = '{:.3f}'.format

pk = pd.read_csv("bps-od_17106_jml_pengeluaran_per_kapita_kabupatenkota_data.csv")
um = pd.read_csv("disnaketrans-od_18868_datatup_upah_minimum_kabupatenkota_dlrh_prov_jabar_data.csv")
jpb = pd.read_csv("disnaketrans-od_15793_jumlah_penduduk_yang_bekerja_berdasarkan_kabupatenkota_data.csv")
gk = pd.read_csv("bps-od_17110_angka_garis_kemiskinan_per_kapita_per_bulan_kabupaten_data.csv")
```

Data Exploration

Mengeksplorasi dataset upah minimum

In [2]: un.info()

Out[2]:

In [3]: # 5 baris pertama dataframe upah minimum

Out[3]:

In [4]: # menghapus kolom yang tidak diperlukan

In [5]: # mengecek data hulu pada dataframe upah minimum

Out[5]:

In [6]: # mengecek data zero values pada dataframe upah minimum

Out[6]:

Mengeksplorasi dataset pengeluaran per kapita

In [7]: pkp.info()

Out[8]:

In [9]: # menghapus kolom yang tidak diperlukan

In [10]: # mengecek data zero values pada dataframe pengeluaran per kapita

Out[10]:

In [11]: # mengecek data hulu pada dataframe pengeluaran per kapita

Out[11]:

Mengeksplorasi dataset jumlah penduduk bekerja

In [12]: jpb.info()

Out[13]:

In [14]: # menghapus kolom yang tidak diperlukan

In [15]: # mengganti nama kolom jumlah_penduduk menjadi jumlah_penduduk_bekerja

In [16]: # mengecek data hulu pada jumlah penduduk bekerja

Out[16]:

In [17]: # mengecek data zero values pada dataframe jumlah penduduk bekerja

Out[17]:

In [18]: # mengisi data yang zero value dengan rata-rata

Out[18]:

Mengeksplorasi dataset garis kemiskinan

In [19]: gk.info()

Out[20]:

In [21]: # menghapus kolom yang tidak diperlukan

In [22]: # mengecek data hulu pada garis kemiskinan per kapita

Out[22]:

In [23]: # mengecek data zero values pada dataframe garis kemiskinan per kapita

Out[23]:

Menghitung rata-rata dari keempat dataset

In [24]: mean_pkp = pkp.groupby(['kode_kabupaten_kota', 'nama_kabupaten_kota'])['jumlah_pengeluaran_per_kapita'].mean().to_frame()

In [25]: df1 = pd.merge(df1, mean_pkp, how='inner', on=['kode_kabupaten_kota', 'nama_kabupaten_kota'])

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