

UNIFIED MENTOR

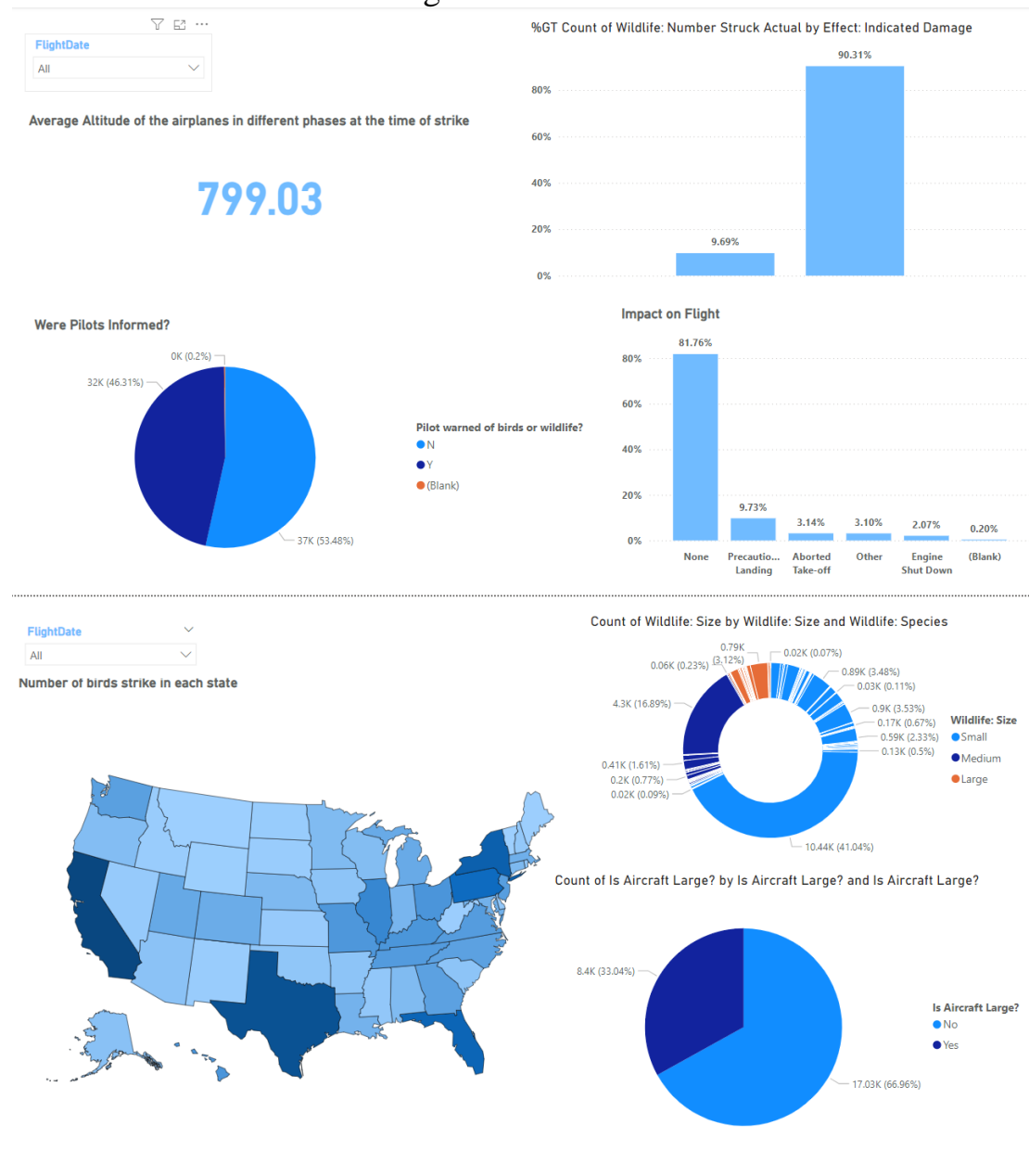
Name:S.SUMITH KUMAR (Business Analyst Intern)

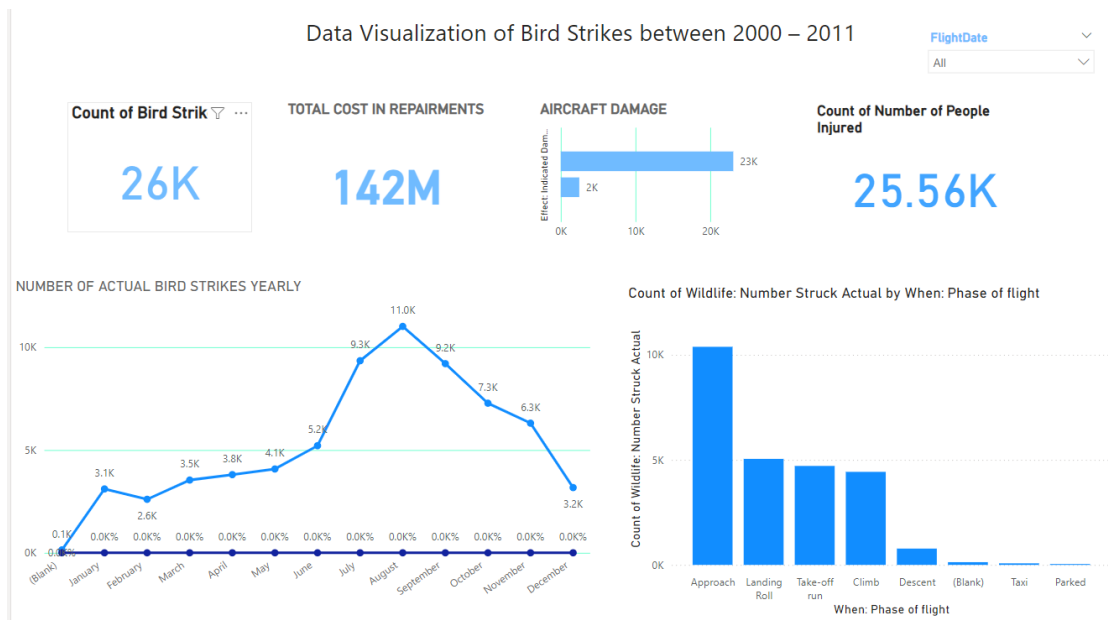
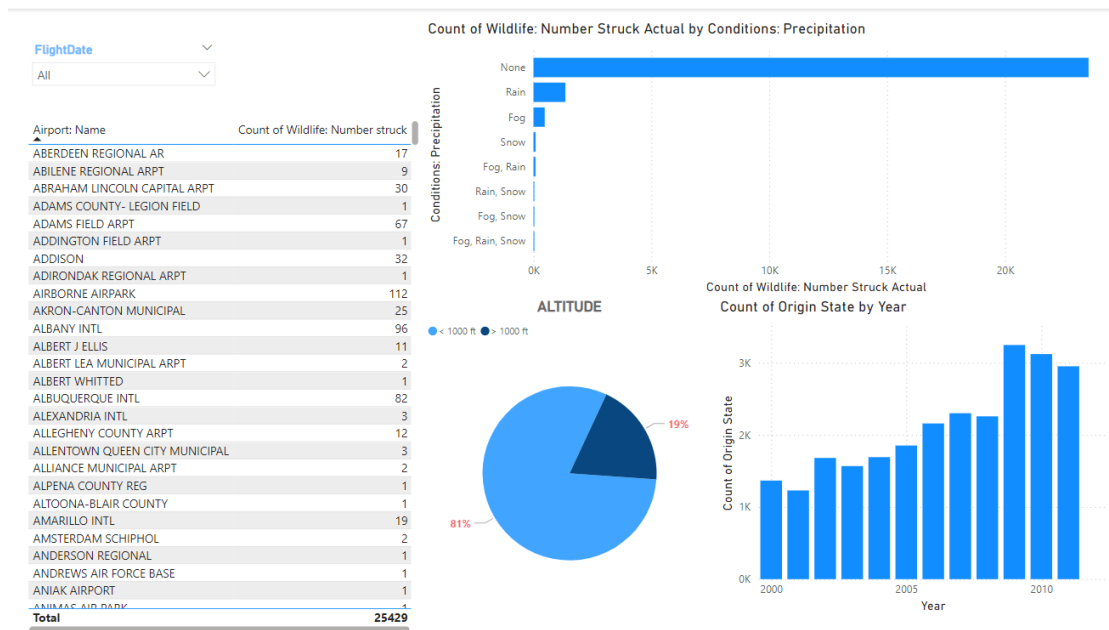
UNID:UMIP19852

Time period : 20-8-24 to 20-10-24

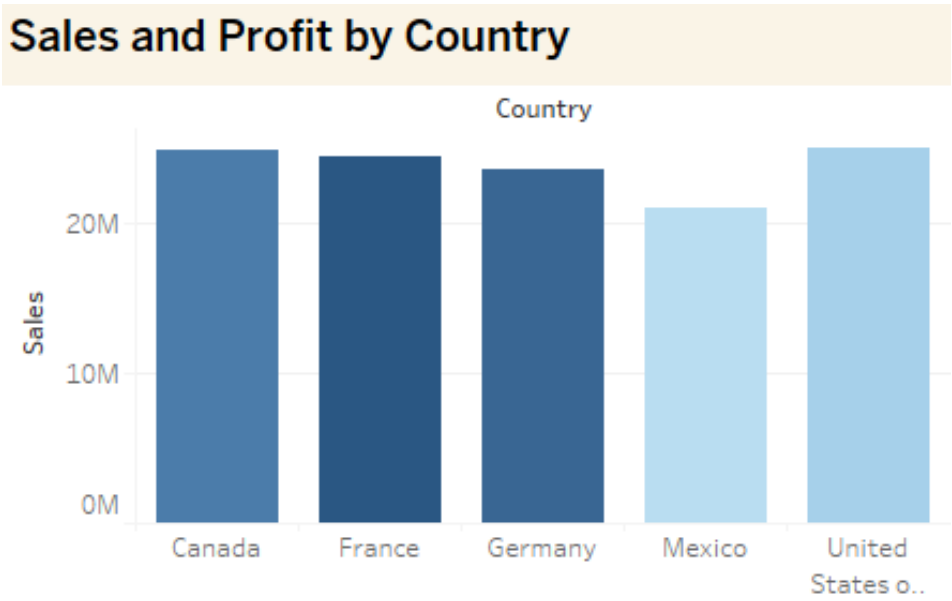
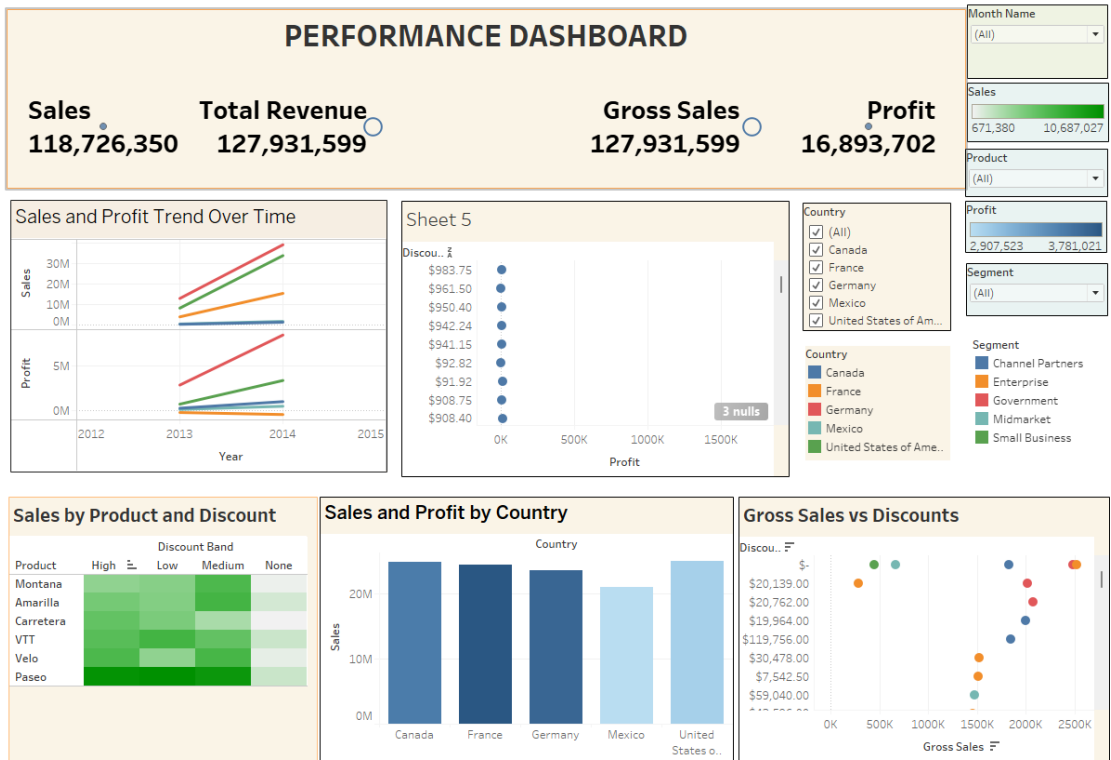
Project 1:Data Visualization of Bird Strikes between 2000 – 2011

The dashboard is created using Power BI






Project 2:Financial Performance Dashboard

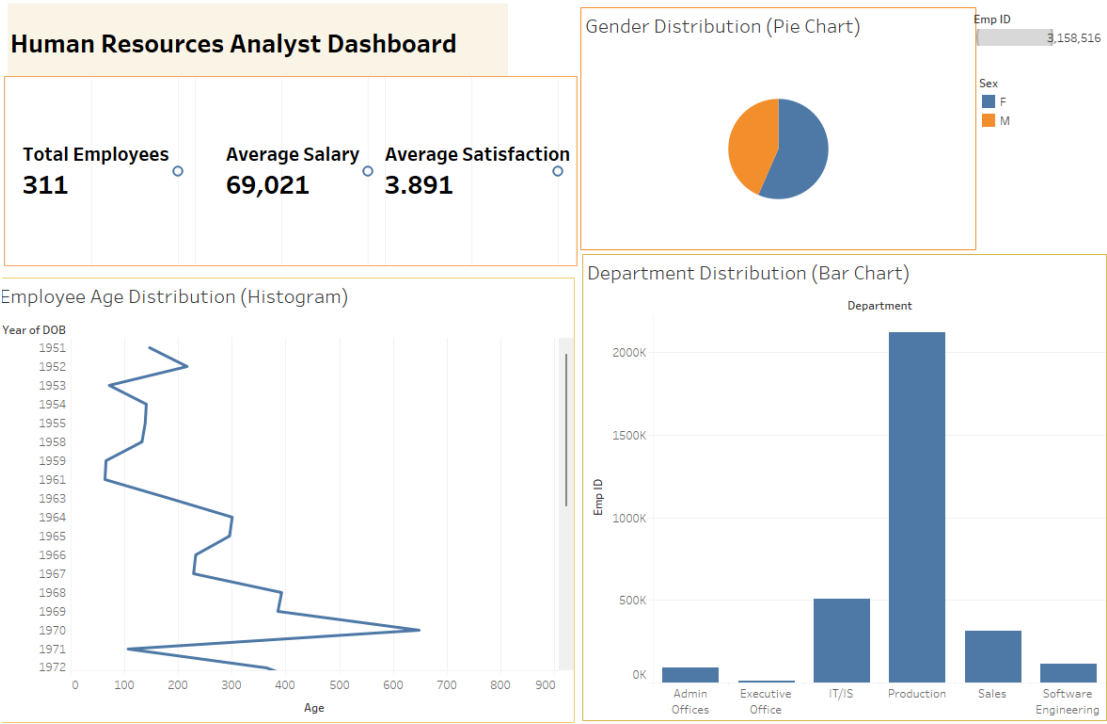


Sales by Product and Discount

Product	Discount Band			
	High 	Low	Medium	None
Montana				
Amarilla				
Carretera				
VTT				
Velo				
Paseo				

Project 3:Human Resources Analyst

The dashboard is created using Tableau



Project 4(extra):Data Governance and Security Dashboard



```
[5]: col = ESGData.columns
print(col)
y = ESGData.loc[19]
```

```
Index(['Series Code', 'Topic', 'Indicator Name', 'Short definition',
      'Long definition', 'Unit of measure', 'Periodicity', 'Base Period',
      'Other notes', 'Aggregation method', 'Limitations and exceptions',
      'Notes from original source', 'General comments', 'Source',
      'Statistical concept and methodology', 'Development relevance',
      'Related source links', 'Other web links', 'Related indicators',
      'License Type', 'Unnamed: 20'],
      dtype='object')
```

```
[6]: print(ESGData.loc[19])
```

```
Series Code      EN.CLC.HEAT.XD
Topic      Environment: Environment/climate risk & resili...
Indicator Name      Heat Index 35 (projected change in days)
Short definition      NaN
Long definition      Total count of days per year where the daily m...
Unit of measure      NaN
Periodicity      NaN
Base Period      NaN
Other notes      Refer to the Climate Knowledge Portal for impo...
Aggregation method      NaN
Limitations and exceptions      NaN
Notes from original source      NaN
General comments      NaN
Source      World Bank, Climate Change Knowledge Portal (h...
Statistical concept and methodology      These days represent extremely uncomfortable c...
Development relevance      NaN
Related source links      NaN
Other web links      NaN
Related indicators      NaN
License Type      CC BY-4.0
Unnamed: 20      NaN
Name: 19, dtype: object
```

```
[8]: print(ESGData.columns)
```

```
Index(['Series Code', 'Topic', 'Indicator Name', 'Short definition',
      'Long definition', 'Unit of measure', 'Periodicity', 'Base Period',
      'Other notes', 'Aggregation method', 'Limitations and exceptions',
      'Notes from original source', 'General comments', 'Source',
      'Statistical concept and methodology', 'Development relevance',
      'Related source links', 'Other web links', 'Related indicators',
      'License Type', 'Unnamed: 20'],
      dtype='object')
```

```
new = updated.columns
newlist = ['Country Name', 'Country Code', 'Indicator Name', 'Indicator Code', '1960', '1961', '1962', '1963', '1964', '1965', '1966', '1967', '1968', '1969', '1970', '1971', '1972', '1973', '1974', '1975', '1976', '1977', '1978', '1979', '1980', '1981', '1982', '1983', '1984', '1985', '1986', '1987', '1988', '1989', '1990', '1991', '1992', '1993', '1994', '1995', '1996', '1997', '1998', '1999', '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007', '2008', '2009', '2010', '2011', '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019', '2020', '2021', '2022', '2023', '2024', '2025', '2026', '2027', '2028', '2029', '2030', '2031', '2032', '2033', '2034', '2035', '2036', '2037', '2038', '2039', '2040', '2041', '2042', '2043', '2044', '2045', '2046', '2047', '2048', '2049', '2050', '2051', '2052', '2053', '2054', '2055', '2056', '2057', '2058', '2059', '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067', '2068', '2069', '2070', '2071', '2072', '2073', '2074', '2075', '2076', '2077', '2078', '2079', '2080', '2081', '2082', '2083', '2084', '2085', '2086', '2087', '2088', '2089', '2090', '2091', '2092', '2093', '2094', '2095', '2096', '2097', '2098', '2099', '2100']
updated = ESGData.drop(newlist, axis = 1)
updated = updated.transpose()
```

```
# Top 3 ESG
sweden = updated[[14214, 14219, 14223, 14237, 14251]].reset_index(drop=True)
sweden = sweden.rename({14214: 'CO2 emissions (metric tons per capita)', 14219: 'Electricity production from coal sources (% of total)', 14223: 'Fertility rate, total (births per woman)'})

finland = updated[[7045, 7050, 7054, 7068, 7082]].reset_index(drop=True)
finland = finland.rename({7045: 'CO2 emissions (metric tons per capita)', 7050: 'Electricity production from coal sources (% of total)', 7054: 'Fertility rate, total (births per woman)'})

norway = updated[[11735, 11740, 11744, 11758, 11772]].reset_index(drop=True)
norway = norway.rename({11735: 'CO2 emissions (metric tons per capita)', 11740: 'Electricity production from coal sources (% of total)', 11744: 'Fertility rate, total (births per woman)'})

# Bottom 3 ESG
ssd = updated[[13678, 13683, 13687, 13701, 13715]].reset_index(drop=True)
ssd = ssd.rename({13678: 'CO2 emissions (metric tons per capita)', 13683: 'Electricity production from coal sources (% of total)', 13687: 'Fertility rate, total (births per woman)'})

car = updated[[5236, 5241, 5245, 5259, 5273]].reset_index(drop=True)
car = car.rename({5236: 'CO2 emissions (metric tons per capita)', 5241: 'Electricity production from coal sources (% of total)', 5245: 'Fertility rate, total (births per woman)'})

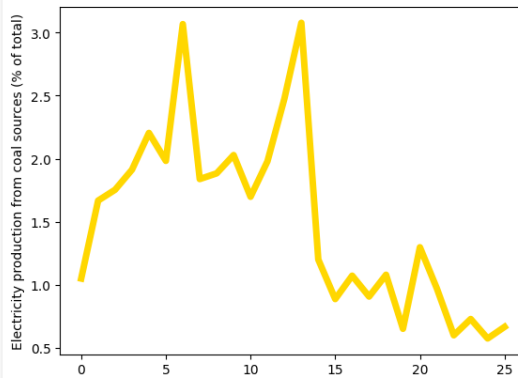
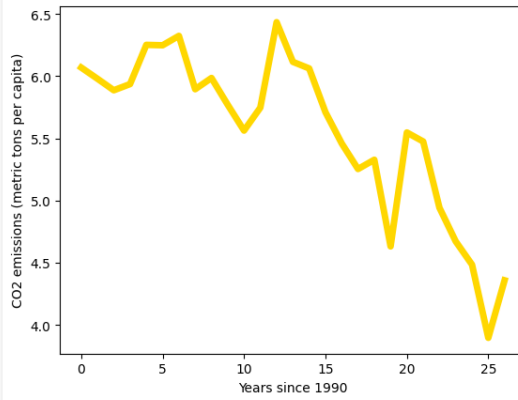
yemen = updated[[15822, 15827, 15831, 15845, 15859]].reset_index(drop=True)
yemen = yemen.rename({15822: 'CO2 emissions (metric tons per capita)', 15827: 'Electricity production from coal sources (% of total)', 15831: 'Fertility rate, total (births per woman)'})
```

```
# Sweden Graphs
plt.plot(sweden.index, sweden['CO2 emissions (metric tons per capita)'], color = 'gold', linewidth = 5)
plt.ylabel('CO2 emissions (metric tons per capita)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(sweden.index, sweden['Electricity production from coal sources (% of total)'], color = 'gold', linewidth = 5)
plt.ylabel('Electricity production from coal sources (% of total)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(sweden.index, sweden['Fertility rate, total (births per woman)'], color = 'red', linewidth = 5)
plt.ylabel('Fertility rate, total (births per woman)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(sweden.index, sweden['Life expectancy at birth, total (years)'], color = 'green', linewidth = 5)
```



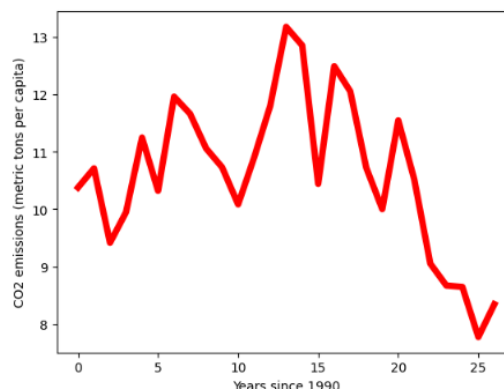
```
[20]: # Finland Graphs
plt.plot(finland.index, finland['CO2 emissions (metric tons per capita)'], color = 'red', linewidth = 5)
plt.ylabel('CO2 emissions (metric tons per capita)')
plt.xlabel('Years since 1990')
plt.show()

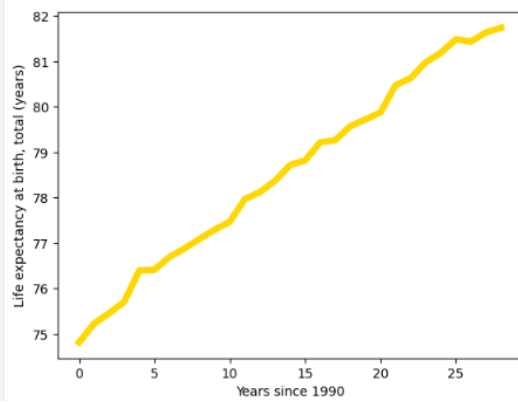
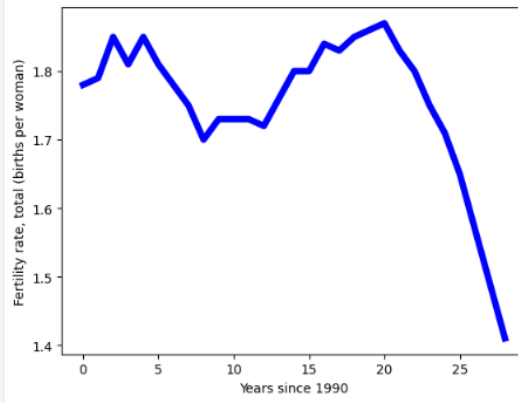
plt.plot(finland.index, finland['Electricity production from coal sources (% of total)'], color = 'blue', linewidth = 5)
plt.ylabel('Electricity production from coal sources (% of total)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Fertility rate, total (births per woman)'], color = 'blue', linewidth = 5)
plt.ylabel('Fertility rate, total (births per woman)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Life expectancy at birth, total (years)'], color = 'gold', linewidth = 5)
plt.ylabel('Life expectancy at birth, total (years)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Population ages 65 and above (% of total population)'], color = 'green', linewidth = 5)
plt.ylabel('Population ages 65 and above (% of total population)')
plt.xlabel('Years since 1990')
plt.show()
```






```
[28]: # Finland Graphs
plt.plot(finland.index, finland['CO2 emissions (metric tons per capita)'], color = 'red', linewidth = 5)
plt.ylabel('CO2 emissions (metric tons per capita)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Electricity production from coal sources (% of total)'], color = 'blue', linewidth = 5)
plt.ylabel('Electricity production from coal sources (% of total)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Fertility rate, total (births per woman)'], color = 'blue', linewidth = 5)
plt.ylabel('Fertility rate, total (births per woman)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Life expectancy at birth, total (years)'], color = 'gold', linewidth = 5)
plt.ylabel('Life expectancy at birth, total (years)')
plt.xlabel('Years since 1990')
plt.show()

plt.plot(finland.index, finland['Population ages 65 and above (% of total population)'], color = 'green', linewidth = 5)
plt.ylabel('Population ages 65 and above (% of total population)')
plt.xlabel('Years since 1990')
plt.show()
```

