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[8] pip install pandas

[11] pip install pandas slack_sdk

```
import pandas as pd
from slack_sdk import WebClient
from slack_sdk.errors import SlackApiError


def fetch_data(month):
    data = pd.read_excel('/content/covid-19-state-level-data.xlsx')

    # Filter the data for the given month
    filtered_data = data[data['date'].dt.month == month]

    # Get the top 3 states with the highest number of deaths
    top_3_states = filtered_data.groupby('state')['deaths'].sum().nlargest(3)

    return top_3_states

# Function to calculate the percentage of deaths for each state
def calculate_percentage(total_deaths, state_deaths):
    return (state_deaths / total_deaths) * 100
```

1s completed at 1:5

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```
# Function to calculate the percentage of deaths for each state
def calculate_percentage(total_deaths, state_deaths):
    return (state_deaths / total_deaths) * 100

# Function to send the summary to a Slack channel
def send_summary_to_slack(summary):
    token = 'xoxp-5296100605698-5319797177744-5289639261526-aa5eefcb937bf1ead41a342d31e71d91'
    channel = '#job-search'
    client = WebClient(token=token)

    try:
        response = client.chat_postMessage(channel=channel, text=summary)
        print("Summary sent to Slack successfully!")
    except SlackApiError as e:
        print(f"Error sending summary to Slack: {e.response['error']}")


def generate_data_summary():
    month = 3


    top_3_states = fetch_data(month)

    # Calculate the total number of deaths
    total_deaths = top_3_states.sum()
```

✓ 1s completed at 1:55 PM

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```
def generate_data_summary():
    month = 3


    top_3_states = fetch_data(month)

    # Calculate the total number of deaths
    total_deaths = top_3_states.sum()

    summary = f"Monthly Trend Analysis for COVID Deaths - {month}\n\n"

    # Generate the summary for each state
    for state, deaths in top_3_states.items():
        percentage = calculate_percentage(total_deaths, deaths)
        summary += f"State #{state} - Deaths: {deaths}, Percentage: {percentage:.2f}% of total US deaths\n"

    # Send the summary to Slack
    send_summary_to_slack(summary)

# Call the main function to generate and send the data summary
generate_data_summary()
```

```
Summary sent to Slack successfully!
```

Report generated at 2023-05-20 06:28:13

Sagarika Shah 12:52 PM
Messages

slackbot 1:45 PM
removed an integration from this channel:
covid_19

Sagarika Shah 1:55 PM
Monthly Trend Analysis for COVID Deaths - 3

State #New York - Deaths: 7943, Percentage: 69.16% of total US deaths
State #Washington - Deaths: 2377, Percentage: 20.70% of total US deaths
State #New Jersey - Deaths: 1165, Percentage: 10.14% of total US deaths

Message #job-search

State #New York - Deaths: 7943, Percentage: 69.16% of total US deaths
State #Washington - Deaths: 2377, Percentage: 20.70% of total US deaths
State #New Jersey - Deaths: 1165, Percentage: 10.14% of total US deaths

S **Sagarika Shah** 2:30 PM

Monthly Trend Analysis for COVID Deaths - 4

State #New York - Deaths: 425198, Percentage: 72.38% of total US deaths
State #New Jersey - Deaths: 102708, Percentage: 17.48% of total US deaths
State #Michigan - Deaths: 59519, Percentage: 10.13% of total US deaths

Monthly Trend Analysis for COVID Deaths - 5

State #New York - Deaths: 854088, Percentage: 64.03% of total US deaths
State #New Jersey - Deaths: 308935, Percentage: 23.16% of total US deaths
State #Massachusetts - Deaths: 170827, Percentage: 12.81% of total US deaths

Monthly Trend Analysis for COVID Deaths - 6

State #New York - Deaths: 918476, Percentage: 59.79% of total US deaths
State #New Jersey - Deaths: 388821, Percentage: 25.31% of total US deaths
State #Massachusetts - Deaths: 228975, Percentage: 14.90% of total US deaths