## Task 1:

Read the following data set:

https://archive.ics.uci.edu/ml/machine-learning-databases/adult/

Rename the columns as per the description from this file:

https://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.names

Task:

Create a sql db from adult dataset and name it sqladb

- 1. Select 10 records from the adult sqladb
- 2. Show me the average hours per week of all men who are working in private sector
- 3. Show me the frequency table for education, occupation and relationship, separately
- 4. Are there any people who are married, working in private sector and having a masters degree
- 5. What is the average, minimum and maximum age group for people working in different sectors
- 6. Calculate age distribution by country
- 7. Compute a new column as 'Net-Capital-Gain' from the two columns 'capital-gain' and 'capital-loss'

## Task 2:

Read the following data set:

https://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.data

## Task:

- 1. Create an sqlalchemy engine using a sample from the data set
- 2. Write two basic update queries
- 3. Write two delete queries
- 4. Write two filter queries
- 5. Write two function queries