Adult

Database preparation

(SQL Database connection)
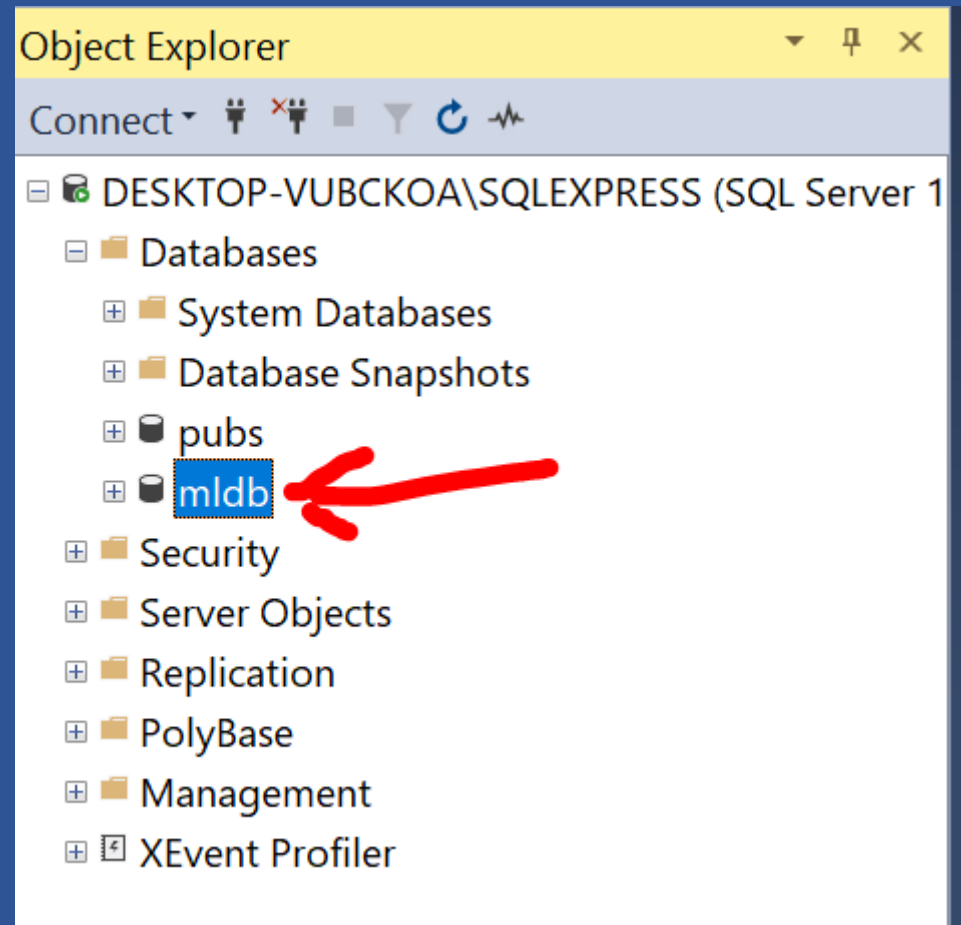
What's in this session?

- Download Dataset

- Create new a database

- Import flat file

- Specify input file

- Modify columns

- Select top 1000

- Or restore database from the zip file
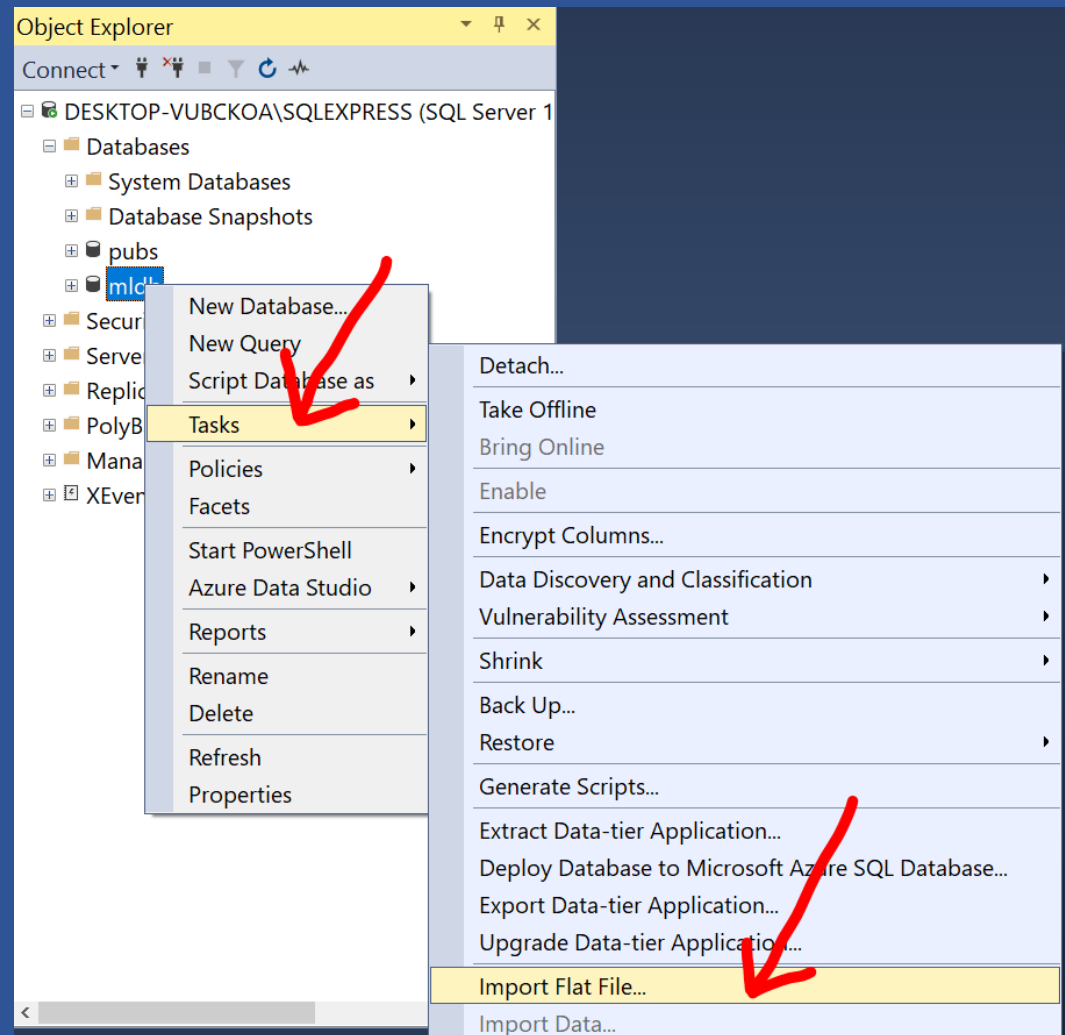
Download Dataset

Adult dataset

https://github.com/laploy/ML.NET/blob/master/Adult/adult.zip

Create new a database

Import flat file

Specify input file

Specify Input File

This operation will create a table from your input file.

Location of file to be imported

D:\Desktop2018\MLDB\adult.csv

Browse...

New table name:

adult

Table schema:

dbo

Modify columns

Modify Columns

This operation generated the following table schema. Please verify if schema is accurate, and if not, please make any changes.

Column Name	Data Type	Primary Key	Allow Nulls
id	smallint	☑	☐
age	tinyint	☐	☐
workclass	nvarchar(50)	☐	☐
fnlwgt	int	☐	☐
education	nvarchar(50)	☐	☐
education_num	tinyint	☐	☐
marital_status	nvarchar(50)	☐	☐
occupation	nvarchar(50)	☐	☐
relationship	nvarchar(50)	☐	☐
ethnicity	nvarchar(50)	☐	☐
sex	nvarchar(50)	☐	☐
capital_gain	int	☐	☐
capital_loss	smallint	☐	☐
hours_per_week	tinyint	☐	☐
native_country	nvarchar(50)	☐	☐
label	bit	☐	☐

Select top 1000

	id	age	workclass	fnlwgt	education	education_num	marital_status	occupation
1	1	39	State-gov	77516	Bachelors	13	Never-married	Adm-clerical
2	2	50	Self-emp-not-inc	83311	Bachelors	13	Married-civ-spouse	Exec-managerial
3	3	38	Private	215646	HS-grad	9	Divorced	Handlers-cleaners
4	4	53	Private	234721	11th	7	Married-civ-spouse	Handlers-cleaners
5	5	28	Private	338409	Bachelors	13	Married-civ-spouse	Prof-specialty
6	6	37	Private	284582	Masters	14	Married-civ-spouse	Exec-managerial
7	7	49	Private	160187	9th	5	Married-spouse-absent	Other-service
8	8	52	Self-emp-not-inc	209642	HS-grad	9	Married-civ-spouse	Exec-managerial
9	9	31	Private	45781	Masters	14	Never-married	Prof-specialty
10	10	42	Private	159449	Bachelors	13	Married-civ-spouse	Exec-managerial

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Or restore database from the zip file

https://github.com/laploy/ML.NET/blob/master/Adult/mldb.zip

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What's next?

Adult AutoML