# Database Management Systems

Azure Machine Learning\*

\* not among the exam topics

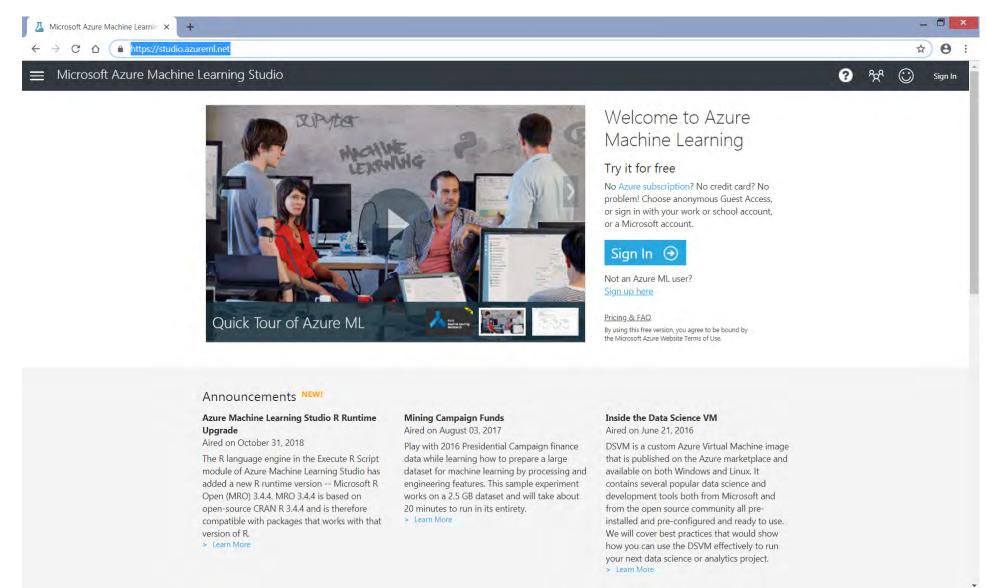
# Azure Machine Learning

- build / train / deploy machine learning models
- Machine Learning Studio

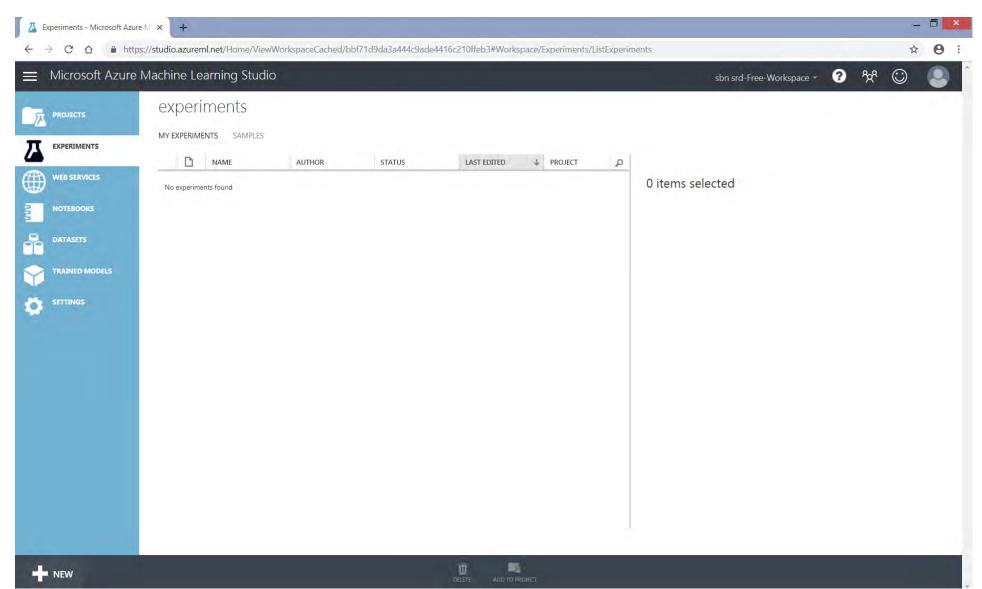
- \* Machine Learning Studio
- create the model
  - obtain the data, prepare the data, define the features
- training
  - choose the algorithm, apply the algorithm
- testing the model
  - predict car prices for other vehicles
  - test the quality of the results

# Data science Experiment – Car Price Prediction

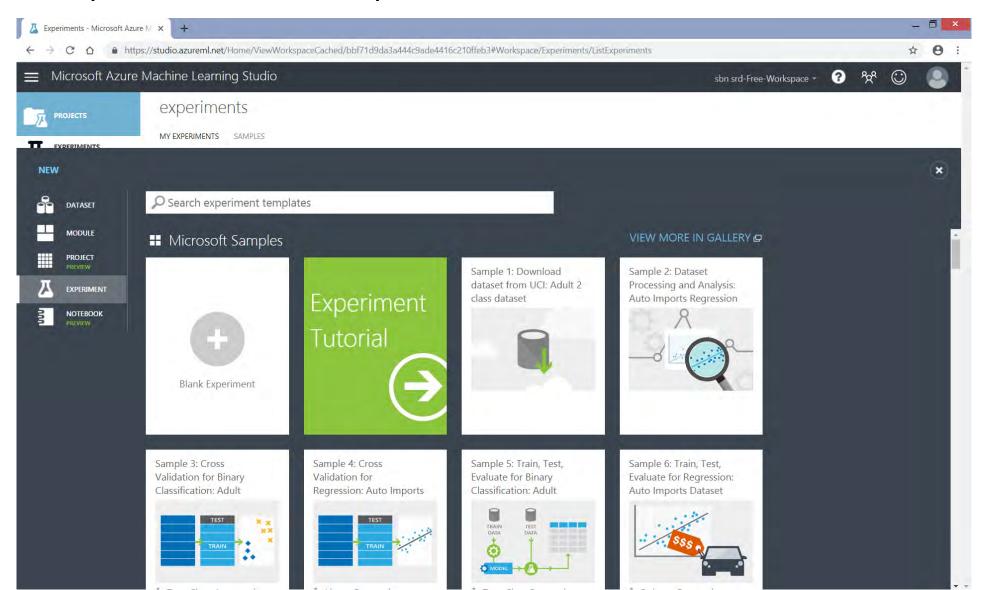
https://studio.azureml.net/ -> Sign in



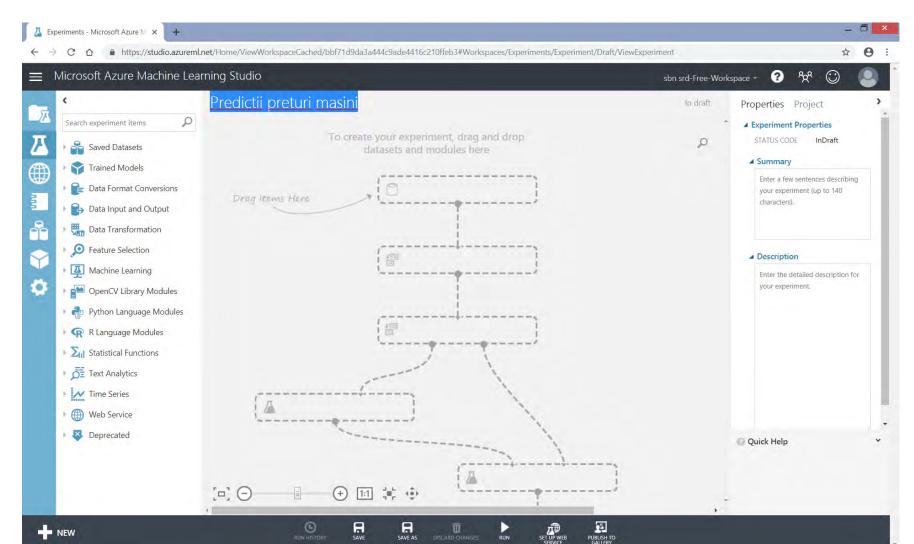
\* create an experiment: + New



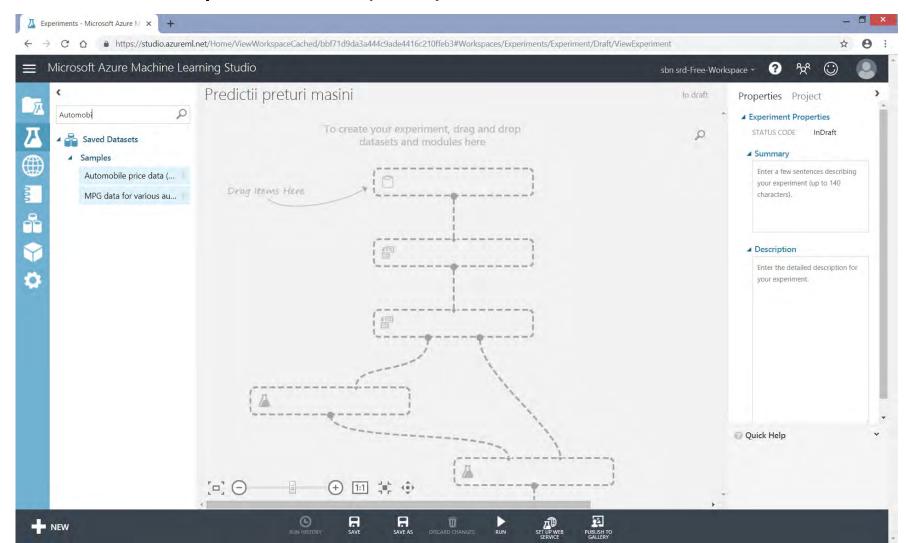
\* create an experiment: Blank Experiment



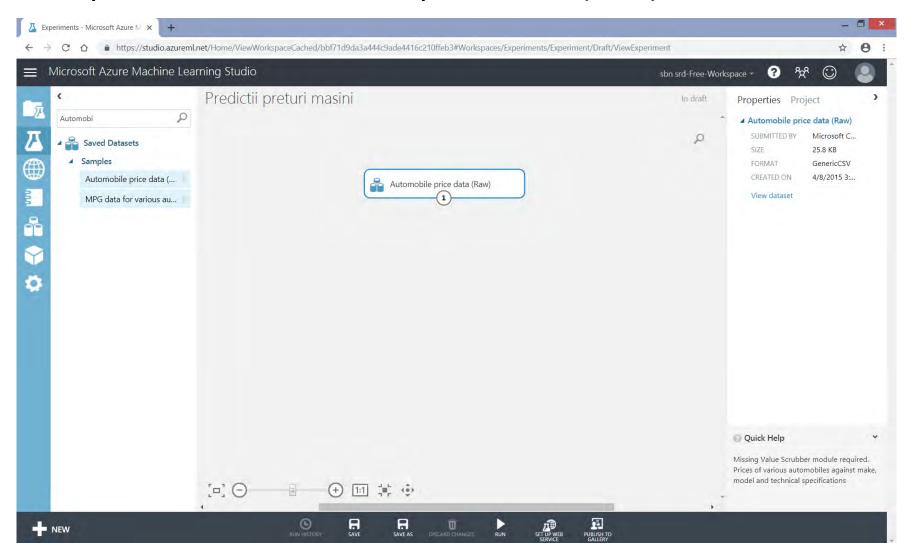
- \* create an experiment
  - experiment name



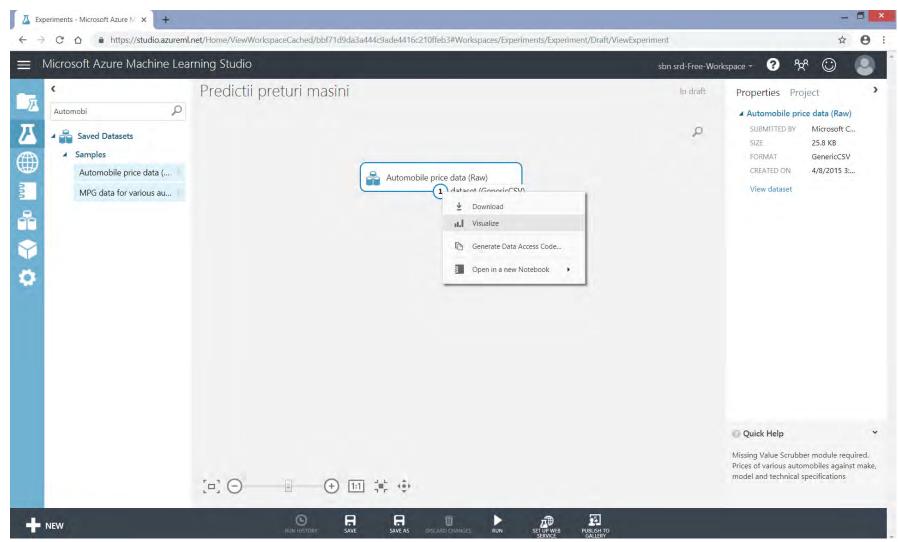
- \* selecting the data source
  - dataset Automobile price data (raw)



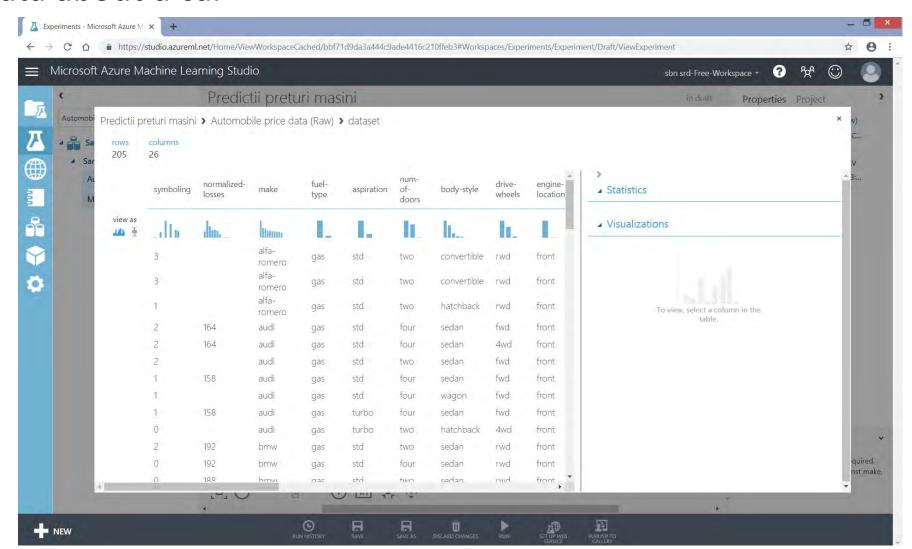
- \* selecting the data source
  - drag & drop dataset Automobile price data (raw) onto the canvas



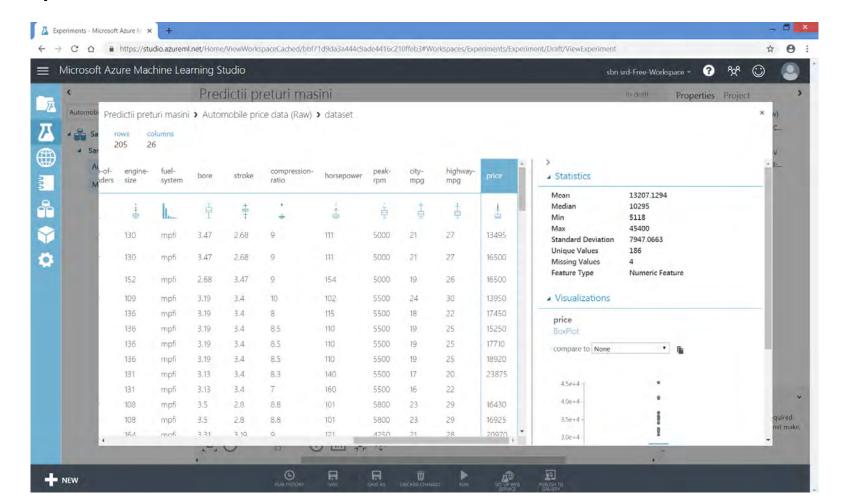
- \* displaying the data
  - dataset output port -> Visualize



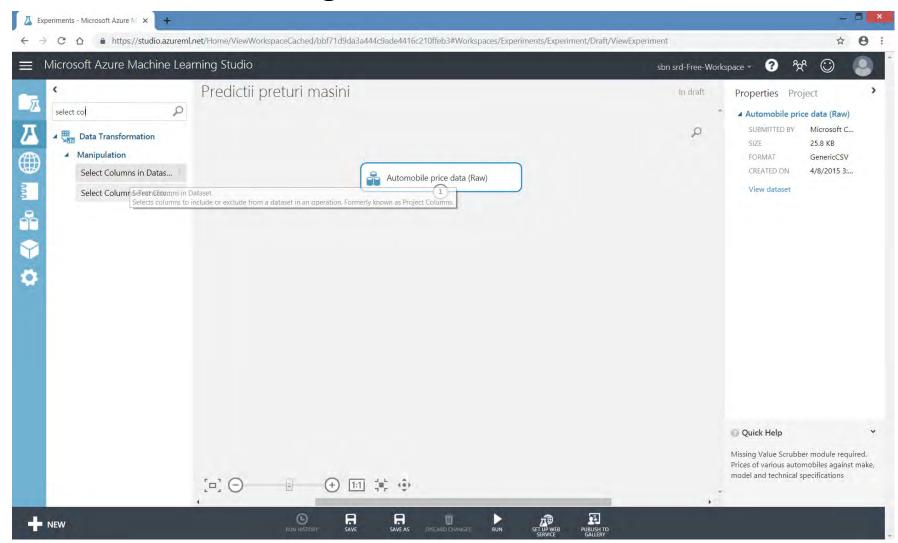
- \* displaying the data
  - row data about a car



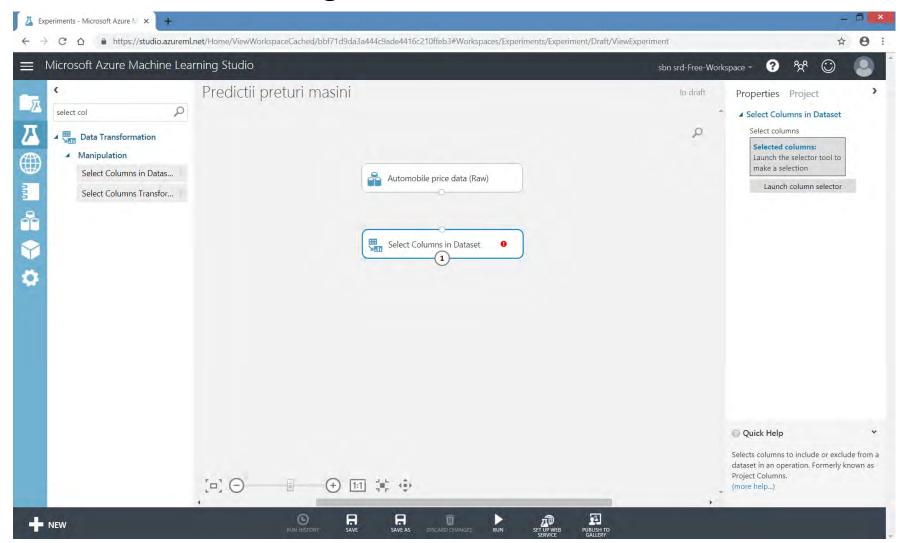
- \* displaying the data
  - columns variables
  - target column price



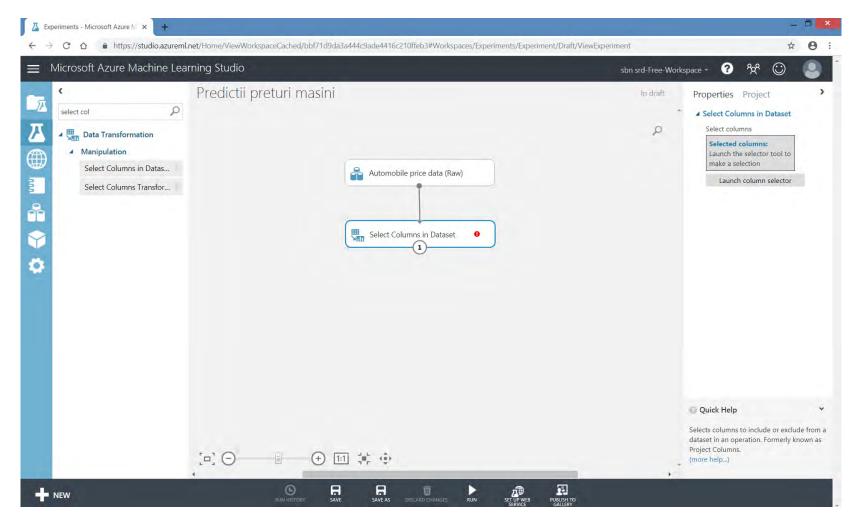
- \* preparing the data
  - eliminate column with missing values *normalized-losses*



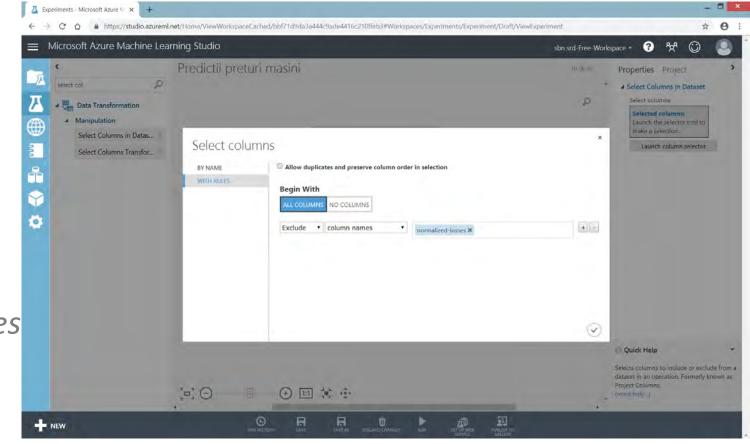
- \* preparing the data
  - eliminate column with missing values Select Columns in Dataset module



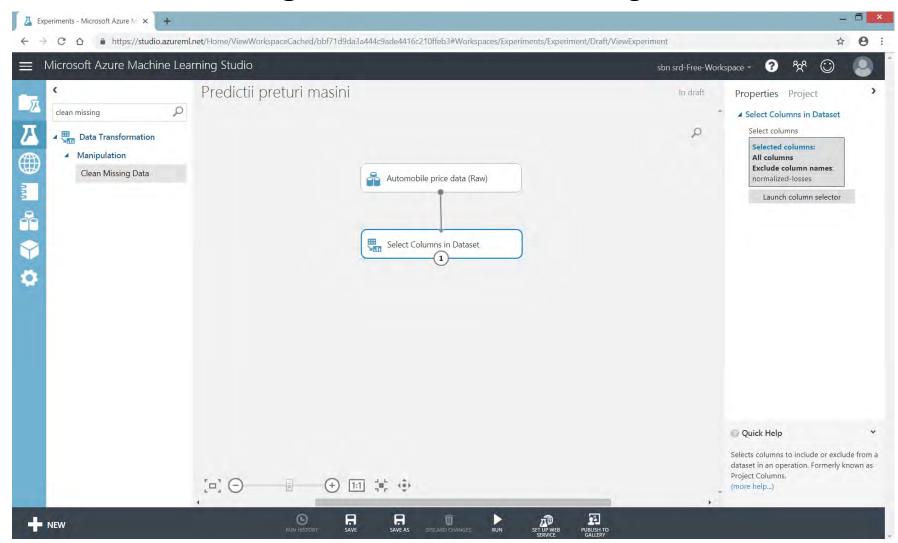
- \* preparing the data
  - eliminate column with missing values



- \* preparing the data
  - eliminate column with missing values
  - Select Columns in Dataset
    - Launch column selector
      - With Rules
        - Begin With
          - All Columns
        - Exclude
          - normalized-losses



- \* preparing the data
  - eliminate rows with missing values Clean Missing Data module



- \* preparing the data
  - eliminate rows with missing values
  - Clean Missing Data
    - Cleaning mode
      - Remove entire row

