ScholarNest

Spark Azure Databricks

Databricks Spark Certification and beyond

Instructor: Prashant Kumar Pandey

Absolute Beginner to Specialization in Apache Spark and Azure Databricks

Assignments

Assignment - 1

- Setup your Databricks Community Cloud environment

- Objectives:
    - You have access to Databricks Community Cloud
    - You can create a compute cluster in Databricks Community
    - You can create a Python Notebook
    - You can run Spark Data Frame Code (Diamonds Data Analysis)
- Solution:
    - 01-getting-started.ipynb

Diamonds Data Analysis

Given data file

/databricks-datasets/Rdatasets/data-001/csv/ggplot2/diamonds.csv

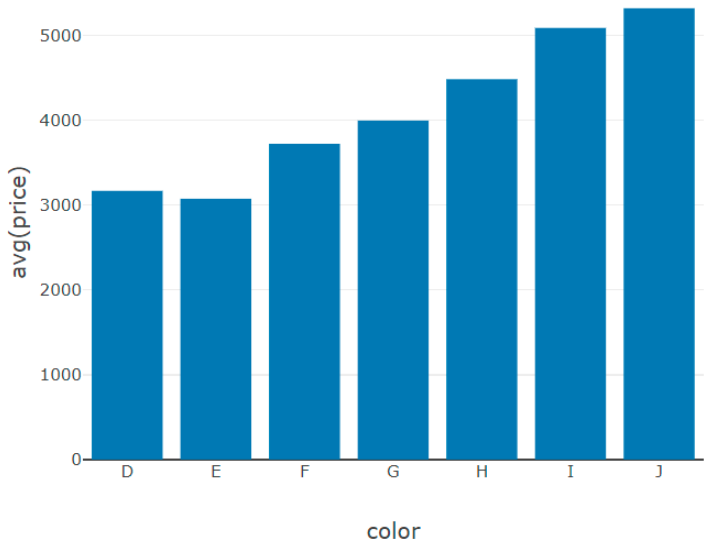
1. Read the data into a frame and display the data frame

_c0	carat	cut	color	clarity	depth	table	price	x	y	z
1	0.23	Ideal	E	SI2	61.5	55.0	326	3.95	3.98	2.43
2	0.21	Premium	E	SI1	59.8	61.0	326	3.89	3.84	2.31
3	0.23	Good	E	VS1	56.9	65.0	327	4.05	4.07	2.31
4	0.29	Premium	I	VS2	62.4	58.0	334	4.2	4.23	2.63
5	0.31	Good	J	SI2	63.3	58.0	335	4.34	4.35	2.75

2. Calculate Average Price by Colour

color	avg(price)
D	3169.9540959409596
E	3076.7524752475247
F	3724.886396981765
G	3999.135671271697
H	4486.669195568401
I	5091.874953891553
J	5323.81801994302

3. Show Bar chart of Avg. Price by Colour

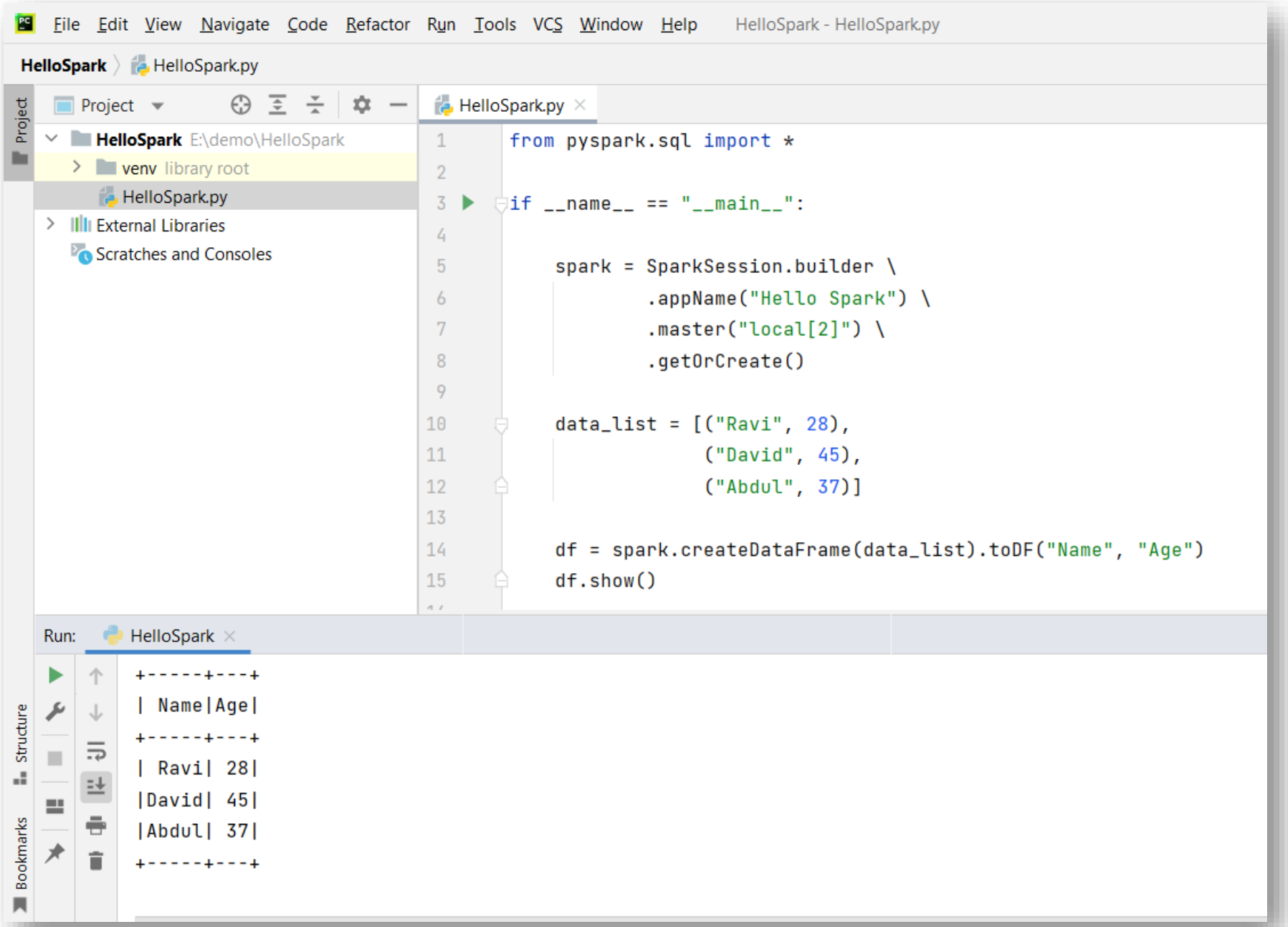


Assignment - 2

- Setup your Local Spark Development IDE

- Objectives:
  - You have access to local IDE
  - You can create and run Spark code locally (HelloSpark example)
- Solution:
  - HelloSpark.py

HelloSpark Application



Thank You

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