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02: Spark on Zeppelin - read a file from local file system

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Pre-requisite: Docker is installed on your machine for Mac OS X (E.g. \$ brew cask install docker) or Windows 10. Docker interview Q&As. This extends setting up Apache Zeppelin Notebook.

Step 1: Pull this from the docker hub, and build the image with the following command.

1 \$ docker pull apache/zeppelin:0.7.3

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You can verify the image with the "docker images" command.

Step 2: The input file to read "employees.txt" in the \$(pwd)/seed.

```
1  1, John, USA, 100000.00
2  2, Peter, Australia, 200000.00
3  3, Sam, USA,76000.00
4  4, Daniel, France, 86000.00
5  5, Simon, Australia,96000.00
6  6, Roseanne, France, 156000.00
```

Step 3: Run the container with the above image.

```
1 $ docker run --rm -it -p 8080:8080 -v "$(pwd)/seed 2
```

Note: \$(pwd)/seed – is the folder where the employees.txt input file will be placed on the host system, and will be synchronized with the container path "/zeppelin/seed".

You can inspect the container files/logs with the following commands in a separate terminal window:

Get the container id with:

```
1 $ docker ps
2
```

**sh** to the container with:

```
1 $ docker exec -it <container id> /bin/bash
2
```

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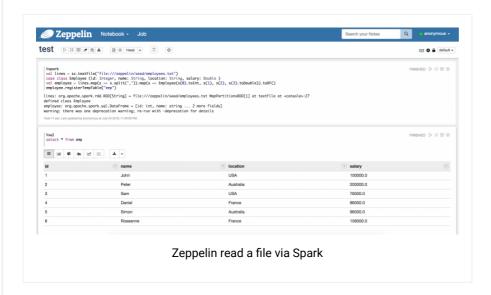


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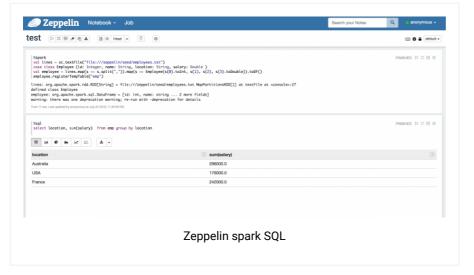
Step 4: Open Zeppelin notebook via a web browser "http:localhost:8080". Create a note book with "spark" as a default interpreter.

You can view the "SQL" output in multiple formats like tabular, graph chart, pie chart, etc.



You can group by location, and output the total salary per location with the following query:

```
1 %sql
2 3 select location, sum(salary) from emp group by location
```



Alternatively, you can achieve the similar results via Spark dataframe operations as shown below.



01A: Spark on Zeppelin – Docker pull from Docker hub

03: Spark on Zeppelin – DataFrame Operations in Scala >>

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