HBASE PRACTICE

CONTENTS

1. NOTES REGARDING THE PRACTICE

- When you see the dollar sign in a command you need to execute, note this is just a command prompt indication. You do not need to actually write the "$", as it is not part of the command.
- **For all practices below – write all the commands you have used in a "Practice answers document".**
  When you are complete, you can submit this document for review.

2. CONNECT TO THE THE HBASE ENVIRONMENT

- Verify the "hbase" environment is up and running:

```
docker ps -a
```

- Open a BASH session to the practice environment

```
docker exec -it hbase /bin/bash
```

3. GENERAL DETAILS (10)

- View the HBase related scripts in the HBase “Bin” directory
  - Hint: The location of the base directory should be in “/opt”
  - You should see ~25 scripts
- Enter HBase Shell
- Get the HBase status in different levels
  - Retrieve base status, simple status, and detailed status
- List all filters
- List all tables

4. TABLE AND DATA CREATION (30)

- Create a table with the name: “employees” with the following column families
  - personal_data
    - Store 2 versions for this column
  - professional_data
    - Store 4 versions for this column

- List all tables

- Insert data for ten employees
  - The id of each employee must be a unique value
    - Insert employee’s id to be 1 - 10
  - Fill the following data
    - personal_data
      - first_name
      - surname
      - age
    - professional_data
      - role
      - expertise
- Scan employee table to print all rows

- Get all data of employee with id 7

- Update age and role of employee number 3

- Get all data of employee with id 3 and make sure updates applied

5. QUREY DATA (60)

- Query all record in employees table

- Get all data of employee with id 3 and the 3 last versions of his column families: personal_data, professional_data
- Get all data of employees with age bigger or equals to 40
- Get **only** role value of all employees with age bigger than 35
- Count the number of all employees
- Count the number of employees with age less than 40
- Delete the newer age (that updated in topic 4) for employee with id 3
- Get the data of employee with id 3 and validate his age reverted to first value

6. DELETE TABLE (10)

- Delete table employees