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coreservlets.com – Hadoop Course <u>HBase Java Advanced API</u>

In this exercise, you will have a chance to develop code based on HBase Java API. Your code will retrieve sets of rows utilizing Scan API.

Approx. Time: 45 minutes

Provided

You will find *Exercise_Advanced_Book* HBase table with the following data:

Row ID	info:title	into:description	author:first	author:last
1	Faster than the speed love	Long book about love.	Brian	Dog
2	Long day	Story about Monday.	Emily	Blue
3	Flying Car	Novel about airplanes.	Phil	High

Perform

Write Java code that will exercise Htable's API. Utilize Scan API against *Exercise_Advanced_Book* table to perform the following tasks:

- 1. Display all the records to the screen for the Book table (hint: Scan through the records)
- 2. Display title and description for the first 2 records (hint: Scan through the records)
- 3. Display cells which contain "about" word using Filters.
- 4. Retrieve row ids only using Filters.

Expected Output

Your output should be similar to something like this:

```
Result with rowId [2], description=Story about Monday.

Result with rowId [3], description=Novel about airplanes.

4: Only Row Ids

2

3
```

Hints/Suggestions

- 1. Re-use Configuration and HTable instances. Why is that a good idea?
- 2. Write all the tasks in the same Java file.
- 3. Create a method to print a single Result instance.
- 4. Use *static* construct for all the schema names such as table name, families and even columns. Create these as byte arrays to avoid unnecessary conversions.

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Solution

1. The code can be found in the Solutions project:

hbase.javaAPIAdvanced.JavaAPIAdvancedSolution.java

2. To execute the solution

\$ yarn jar \$PLAY_AREA/Solutions.jar hbase.javaAPIAdvanced.JavaAPIAdvancedSolution