

Advanced Java Assignment

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1. Creating an Assignments.XML file

```
<assignments>
  <assignment id="1">
    <name>basics of git</name>
    <prog_lang>cli</prog_lang>
    <status_update>completed</status_update>
  </assignment>
  <assignment id="2">
    <name>react native</name>
    <prog_lang>javascript</prog_lang>
    <status_update>completed</status_update>
  </assignment>
  <assignment id="3">
    <name>advanced java</name>
    <prog_lang>java</prog_lang>
    <status_update>In progress</status_update>
  </assignment>
</assignments>
```

2. Parsing the XML to Java object using JAXB:

```
"C:\Program Files\Java\jdk1.8.0_271\bin\java.exe" ...
Deserialized XML File:
Assignment{ID='1', Name='basics of git', Prog language='cli', Status Update=completed}
Assignment{ID='2', Name='react native', Prog language='javascript', Status Update=completed}
Assignment{ID='3', Name='advanced java', Prog language='java', Status Update=In progress}
Capitalizing Name and Program Language.. And Inserting into Oracle DB

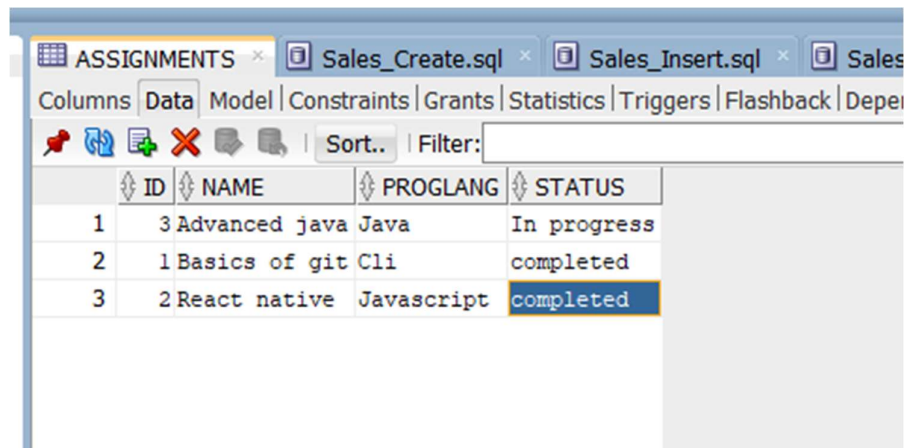
Process finished with exit code 0
```

- Capitalizing Assignment name and programming language using Annotations and inserted the data into Oracle DB using jdbc drivers

```
Capitalizing Name and Program Language.. And Inserting into Oracle DB
Assignment{ID='1', Name='Basics of git', Prog language='Cli', Status Update=completed}
Connected with connection #2
Row Inserted
Assignment{ID='2', Name='React native', Prog language='Javascript', Status Update=completed}
Connected with connection #2
Row Inserted
Assignment{ID='3', Name='Advanced java', Prog language='Java', Status Update=In progress}
Connected with connection #2
Row Inserted

Process finished with exit code 0
```

- Data from Oracle DB:



The screenshot shows an Oracle SQL Developer window with the 'ASSIGNMENTS' table selected. The 'Data' tab is active, displaying a table with four columns: ID, NAME, PROGLANG, and STATUS. The table contains three rows of data. The first row has ID 1, NAME '3 Advanced java', PROGLANG 'Java', and STATUS 'In progress'. The second row has ID 2, NAME '1 Basics of git', PROGLANG 'Cli', and STATUS 'completed'. The third row has ID 3, NAME '2 React native', PROGLANG 'Javascript', and STATUS 'completed'. The 'STATUS' column for the third row is highlighted with a blue selection bar.

ID	NAME	PROGLANG	STATUS
1	3 Advanced java	Java	In progress
2	1 Basics of git	Cli	completed
3	2 React native	Javascript	completed