NAME: Nicholas Jacob
STUDENT ID: # 113578513
GRADED HOMEWORK NUMBER: 3
COURSE: CS/DSA 4513 DATABASE MANAGEMENT
SECTION: ONLINE
SEMESTER: FALL 2023
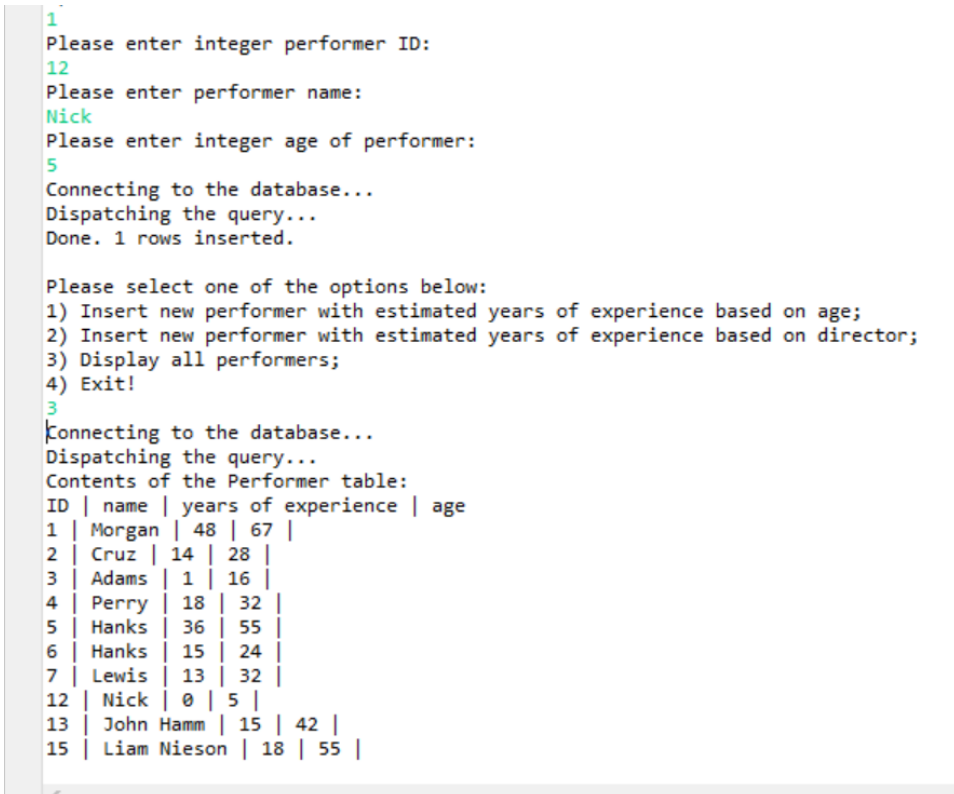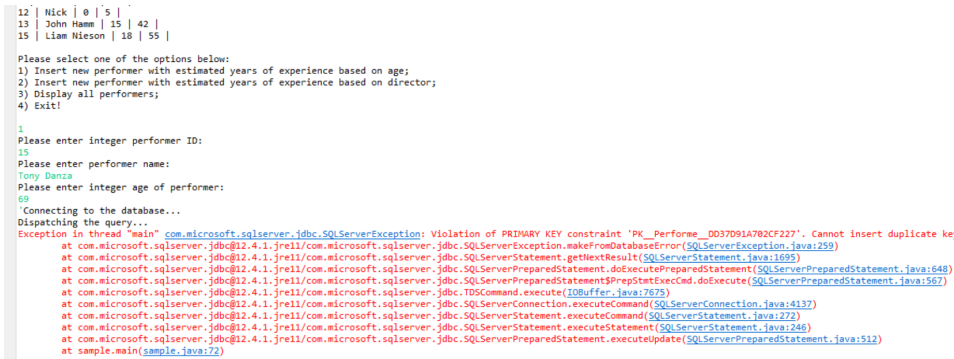INSTRUCTOR: DR. LE GRUENWALD
SCORE:

Problems   @ Javadoc   Declaration   Console ×

sample (1) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Oct 5, 2023, 9:34:43 AM) [pid: 20200]

```
Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
1
Please enter integer performer ID:
13
Please enter performer name:
John Hamm
Please enter integer age of performer:
42
Connecting to the database...
Dispatching the query...
Done. 1 rows inserted.

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
3
Connecting to the database...
Dispatching the query...
Contents of the Performer table:
ID | name | years of experience | age
1 | Morgan | 48 | 67 |
2 | Cruz | 14 | 28 |
3 | Adams | 1 | 16 |
4 | Perry | 18 | 32 |
5 | Hanks | 36 | 55 |
6 | Hanks | 15 | 24 |
7 | Lewis | 13 | 32 |
13 | John Hamm | 15 | 42 |
```

1.

2.

```
1
Please enter integer performer ID:
12
Please enter performer name:
Nick
Please enter integer age of performer:
5
Connecting to the database...
Dispatching the query...
Done. 1 rows inserted.

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
3
Connecting to the database...
Dispatching the query...
Contents of the Performer table:
ID | name | years of experience | age
1 | Morgan | 48 | 67 |
2 | Cruz | 14 | 28 |
3 | Adams | 1 | 16 |
4 | Perry | 18 | 32 |
5 | Hanks | 36 | 55 |
6 | Hanks | 15 | 24 |
7 | Lewis | 13 | 32 |
12 | Nick | 0 | 5 |
13 | John Hamm | 15 | 42 |
15 | Liam Nieson | 18 | 55 |
```
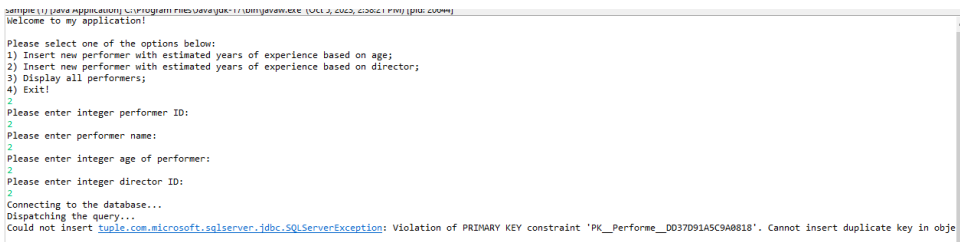
3.

```
12 | Nick | 0 | 5 |
13 | John Hamm | 15 | 42 |
15 | Liam Nieson | 18 | 55 |

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!

1
Please enter integer performer ID:
15
Please enter performer name:
Tony Danza
Please enter integer age of performer:
69
Connecting to the database...
Dispatching the query...
Exception in thread "main" com.microsoft.sqlserver.jdbc.SQLServerException: Violation of PRIMARY KEY constraint 'PK__Performe__DD37D91A702CF227'. Cannot insert duplicate key
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerException.makeFromDatabaseError(SQLServerException.java:259)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerStatement.getNextResult(SQLServerStatement.java:1695)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerPreparedStatement.doExecutePreparedStatement(SQLServerPreparedStatement.java:648)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerPreparedStatement$PrepStmtExecCmd.doExecute(SQLServerPreparedStatement.java:567)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.TDSCommand.execute(IOBuffer.java:7675)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerConnection.executeCommand(SQLServerConnection.java:4137)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerStatement.executeCommand(SQLServerStatement.java:272)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerStatement.executeStatement(SQLServerStatement.java:246)
    at com.microsoft.sqlserver.jdbc@12.4.1.jre11/com.microsoft.sqlserver.jdbc.SQLServerPreparedStatement.executeUpdate(SQLServerPreparedStatement.java:512)
    at sample.main(sample.java:72)
```
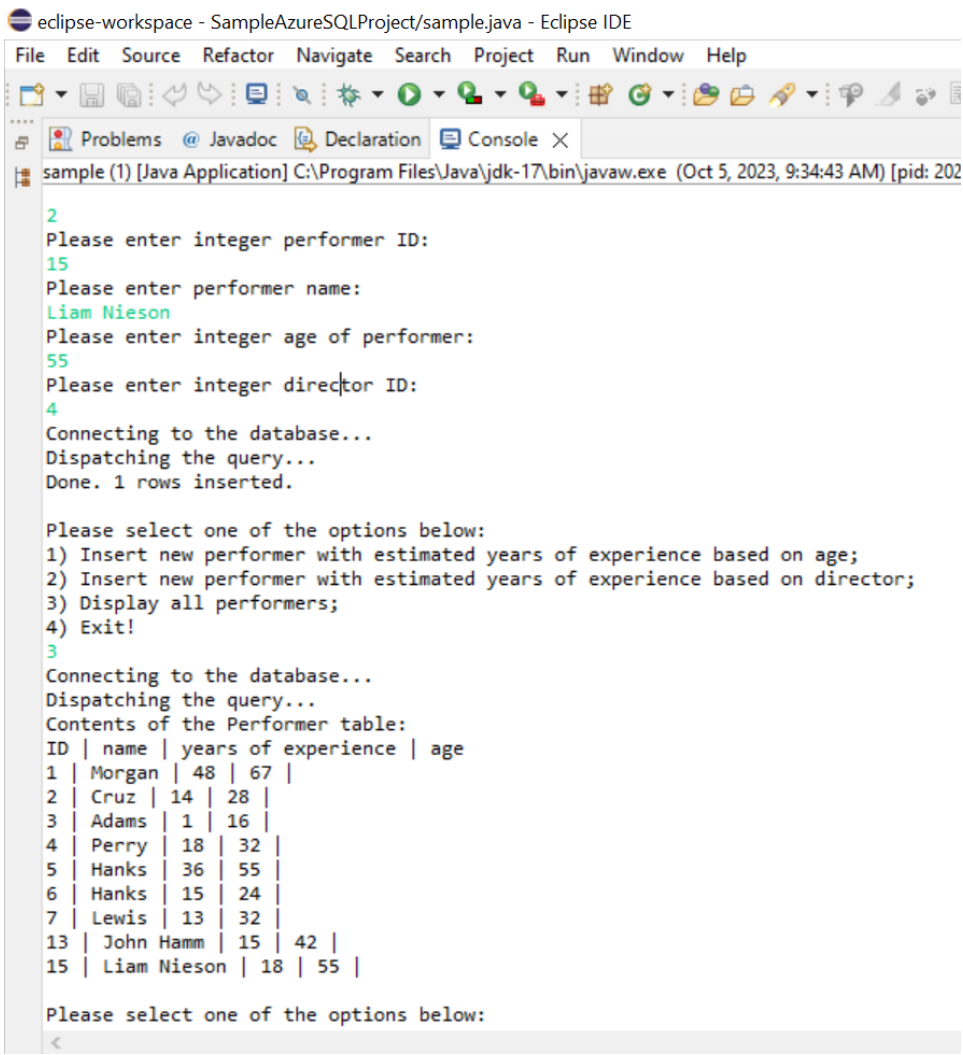
I added exemption handling for these issues in my java submission.

4.

```
Welcome to my application!

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
2
Please enter integer performer ID:

2
Please enter performer name:

2
Please enter integer age of performer:

2
Please enter integer director ID:

2
Connecting to the database...
Dispatching the query...
Could not insert tuple.com.microsoft.sqlserver.jdbc.SQLServerException: Violation of PRIMARY KEY constraint 'PK__Performe__DD37D91A5C9A0818'. Cannot insert duplicate key in obje
```

5.

eclipse-workspace - SampleAzureSQLProject/sample.java - Eclipse IDE

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Problems   @ Javadoc   Declaration   Console ✕

sample (1) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Oct 5, 2023, 9:34:43 AM) [pid: 202

```
2
Please enter integer performer ID:
15
Please enter performer name:
Liam Nieson
Please enter integer age of performer:
55
Please enter integer director ID:
4
Connecting to the database...
Dispatching the query...
Done. 1 rows inserted.

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
3
Connecting to the database...
Dispatching the query...
Contents of the Performer table:
ID | name | years of experience | age
1 | Morgan | 48 | 67 |
2 | Cruz | 14 | 28 |
3 | Adams | 1 | 16 |
4 | Perry | 18 | 32 |
5 | Hanks | 36 | 55 |
6 | Hanks | 15 | 24 |
7 | Lewis | 13 | 32 |
13 | John Hamm | 15 | 42 |
15 | Liam Nieson | 18 | 55 |

Please select one of the options below:
```

```
2
Please enter integer performer ID:
13
Please enter performer name:
Hank Fonda
Please enter integer age of performer:
85
Please enter integer director ID:
3
Connecting to the database...
Dispatching the query...
Done. 1 rows inserted.

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
3
Connecting to the database...
Dispatching the query...
Contents of the Performer table:
ID | name | years of experience | age
1 | Morgan | 48 | 67 |
2 | Cruz | 14 | 28 |
3 | Adams | 1 | 16 |
4 | Perry | 18 | 32 |
5 | Hanks | 36 | 55 |
6 | Hanks | 15 | 24 |
7 | Lewis | 13 | 32 |
13 | Hank Fonda | 33 | 85 |
```

6.

7.
```
2
Please enter integer performer ID:
42
Please enter performer name:
Ben Stiller
Please enter integer age of performer:
69
Please enter integer director ID:
8
Connecting to the database...
Dispatching the query...
Done. 1 rows inserted.

Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!
3
Connecting to the database...
Dispatching the query...
Contents of the Performer table:
ID | name | years of experience | age
1 | Morgan | 48 | 67 |
2 | Cruz | 14 | 28 |
3 | Adams | 1 | 16 |
4 | Perry | 18 | 32 |
5 | Hanks | 36 | 55 |
6 | Hanks | 15 | 24 |
7 | Lewis | 13 | 32 |
13 | Hank Fonda | 33 | 85 |
42 | Ben Stiller | 51 | 69 |
```

8.
```
Please select one of the options below:
1) Insert new performer with estimated years of experience based on age;
2) Insert new performer with estimated years of experience based on director;
3) Display all performers;
4) Exit!

4
Exiting! Good-bye!
```