Database Management Systems II (DBMS-2004)
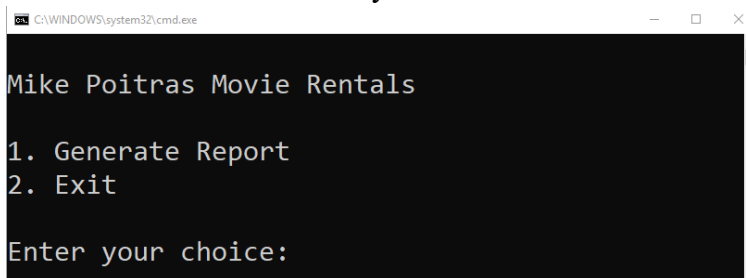## Assignment #1 – Batch Files; Reporting

For this assignment you will be using the database 'JRMOVIE' (created in your schema).

Part 1

You need to create a batch file that implements a simple menu system so users can request the generation of reports. The name of the batch file must be 'Assign1.bat'. The batch file must be commented adequately. The batch system generates the following menu:

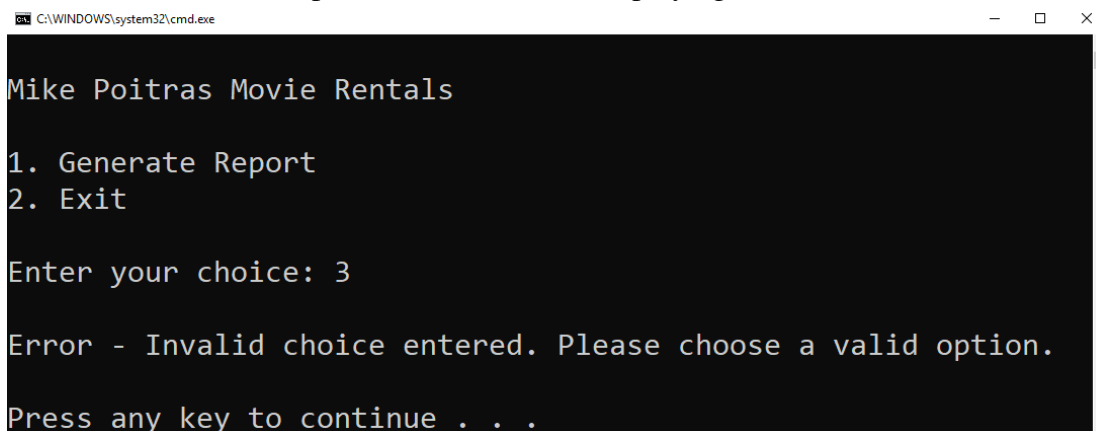**NOTE**: The menu title must be your **FirstName LastName Movie Rentals**

- The menu above *always* appears at the top of the window
- Selection of value other than a 1 or a 2 results in the following error (redisplay the main menu at the top of the window after displaying the error) :
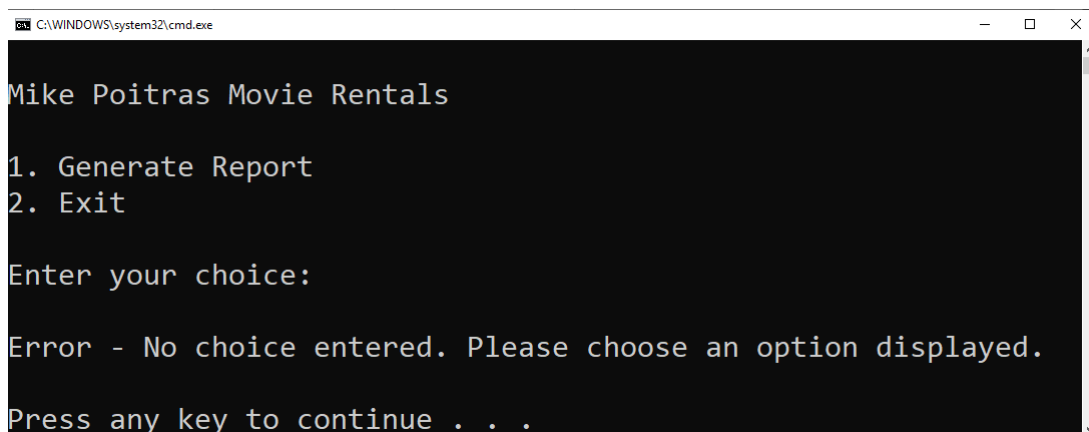
- Pressing enter without selecting an option results in the following error (redisplay the main menu at the top of the window after displaying the error) :

- Selecting option 1 will generate the report explained in Part 2 of this assignment (redisplay the main menu at the top of the window after displaying the report).
- Selecting option 2 terminates the batch file.

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Part 2

Generate the following report (generated when the batch file option 1 on the previous screen is selected):

```
                        Movie Rental Details for Client        933                              Page: 1

 Agreement First Name       Last Name        Date          Movie Name                                                      Paid
 ---------- ---------------- ---------------- ------------  ------------------------------------------------------- --------
          7 Willie           Leake            2014-01-04    Phantom of the Opera                                       $2.28
                                              2014-01-04    BraveHeart                                                 $4.05
                                              2014-01-04    Tombstone                                                  $3.73
         25 Willie           Leake            2014-01-15    Edward Scissorhands                                        $4.21
         32 Willie           Leake            2014-01-19    Demolition Man                                             $3.28
         39 Willie           Leake            2014-01-22    The Patriot                                                $3.70
         85 Willie           Leake            2014-02-05    Speed                                                      $3.69
 ********** **************** ****************                                                                       --------
 Total                                                                                                               $24.94


















 Run by:PRODREPORT
```

Instructions:

- Call your SQL script Assign1.sql
- Use the CONN command as the first line of your SQL script after the comments to connect to the database. Ensure you provide your password.
- The report must be saved to a file located in directory 'C:\DBMSDBII\A1\Reports'
  - This directory may or may not exist – your batch program needs to create it if necessary. It if is already there then just use it.
- The name of the report file is 'LastName_FirstNameInitial.txt'
- The report must prompt the user to enter a client identifier using the prompt 'Customer ID: '. The entered value must be a number 3 digits maximum.
- The report must be generated with a single SELECT statement
- Stored Procedures/Functions are not permitted
- All column formatting must be done using the COLUMN statement discussed in class
- Due to the large size of some columns, they are to be shortened as follows:

  FName – First 15 Characters
  LName – First 15 Characters
  Name – First 55 Characters

- The AgreementDate must occupy 12 spaces on the report
- The line size must be exactly 120 characters
- The page size must be exactly 30 lines
- 'Run by:' in the page footer must show the UserID of any person running the report

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Submission Instructions:

Submit the following:

- The DOS batch file to create the menu.
- The SQL Script to create the report.

The following standards are to be used when coding:

- Keywords are in Uppercase

- Names are coded in 'TitleCase' (First letter of each word capitalized)

- Each clause is placed on a line by itself

Submission Instructions

- Compress all files into a zip archive named '*lastname,firstname_A1.zip*' and submit the archive to the appropriate LEARN dropbox.

Marking Guidelines

- The assignment will be marked using a rubric (attached to the assignment in LEARN).

- The rubric will include marks sections for the following:
  - Proper file naming & submission
  - Proper commenting
  - Proper coding guidelines (capitalization, clause placement, etc)
  - Solution produces correct results