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CATP Mainframe Lab2 Assessment

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| 1 | **LAB2 ASSESSMENT**  **Modules:  COBOL, DB2 and JCL                                                                                  Duration: 4Hrs**  **LAB2 – Question ID:    2F**  **Login Note:**   * Connect to IP Address 10.237.206.10 and Port 23. * Logon using the MF ID provided, for the Lab Assessment * Use password same as your User ID. * Enter the new password – (8 characters combination of alphabetic and numeric). * Follow the guidelines under each step and proceed with INSTRUCTIONS section to create the final deliverables.   **NOTE**   * For the MF ID provided for the Lab Assessment, use the below specified details   + **DATABASE:** DBLAB01   + **TABLESPACE:** Use the below details for Table space name based on the provided MF ID.   https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_1.JPG   * + **PLAN:**LABPL<yyy>, **PACKAGE:** LABPK<yyy>. <yyy> – Denotes last 3 digits of your Lab Assessment MF ID.   The HXB restaurant maintains the menu information, placed orders information, customer information and billing details in database MENU\_DETAIL, ORDER\_DETAIL, CUSTOMER\_DETAIL and BILL\_DETAIL tables for ease of access and maintenance. To make the team to calculate final billing amount for each order develop the below modules:  **DB2:**  1. SPUFI Member Naming Convention: **SB12F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, create table MENU\_DETAIL with the below columns, to store dishes information.   https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_2.JPG  2. SPUFI Member Naming Convention: **SB22F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, create table ORDER\_DETAIL with the below columns, to store orders information.   https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_3.JPG  3. SPUFI Member Naming Convention: **SB32F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, create table CUSTOMER\_DETAIL with the below columns, to store customer information.   https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_4.JPG  4.  SPUFI Member Naming Convention: **SB42F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, create table BILL\_DETAIL with the below columns, to store billing information.   https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_5.JPG  5.  SPUFI Member Naming Convention: **SB52F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, insert the below sample values into MENU\_DETAIL table:   *Note: All Char field data to be inserted in* **CAPITAL** *letters.* **NULL** *denotes null value to be inserted.*  Sample Values:    https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_6.JPG  6.  SPUFI Member Naming Convention: **SB62F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, insert the below sample values into ORDER\_DETAIL table:   *Note: All Char field data to be inserted in* **CAPITAL** *letters.* **NULL** *denotes null value to be inserted.*  Sample Values:  https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_7.JPG  7.  SPUFI Member Naming Convention: **SB72F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.   * + Using SPUFI, insert the below sample values into CUSTOMER\_DETAIL table:   *Note: All Char field data to be inserted in* **CAPITAL** *letters.* **NULL** *denotes null value to be inserted.*  Sample Values:  **https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_8.JPG   COBOL:**  Input                             **: Data to be fetched from tables - MENU\_DETAIL, ORDER\_DETAIL & CUSTOMER\_DETAIL**  **Output table               : BILL\_DETAIL**  Output file                     **: <TLABID>.L2F.BILL.DET**  DD name to be used     **: OUTBILPS**  **Note: Please use only the above mentioned DD names. Do not use COPYBOOKs for declaring output file layout in COBOL program.**   * Using a COBOL program,   1. Using a cursor, extract Customer\_Code, Item\_Ordered, Quantity\_Ordered, Item\_Nm, Price, Cust\_Name, Member, IT\_Employee and Tie\_Up data for all placed orders from tables Order\_Detail, Menu\_Detail and Customer\_Detail. Records to be ordered by Customer\_Code.   2. Using null value handling technique, verify whether the field Item\_Nm field holds any null value. If any null values are present, then do not process that record and continue processing the next record. For records without null values in Item\_Nm field, continue processing the next step.   **Processing:**  Our aim is to calculate the bill amount for the orders placed and apply some special offers based on membership, IT employee and tie up criteria’s. **Only one criterion can be applied for  calculating Final Bill Amount.**          3.   Calculate Bill\_No, Bill\_Amount, and Final\_Bill\_Amount for each order and **insert the billing information into BILL\_DETAIL table and also write into output file**                   i.     Bill\_No: Extract last 4 characters from Customer\_Code and concatenate with character ‘B’ to generate Bill\_No for each order.                         [**Example:** If Customer \_Code is C0274 then Bill\_No should be BN0274]                   ii.     Bill\_Amount: Calculate Bill\_Amount as follows:                                 Bill\_Amount = Quantity\_Ordered \* Price                   iii.     Final\_Bill\_Amount:   * + - * + Check whether Bill\_Amount > 2500. If not, no offer has to be applied. Final\_Bill\_Amount will be the Bill\_Amount calculated in previous step.Final\_Bill\_Amount = Bill\_Amount         + If Bill\_Amount > 2500, then check following criteria’s. If anyone criterion satisfied, apply respective special offer and proceed to step 4.   a. Check whether customer is a Member (Member = ‘YES’). If yes, apply 10% discount on Bill\_Amount and proceed to step 4.                             Final\_Bill\_Amount = Bill\_Amount – (Bill\_Amount \* 10 / 100)  b. Check whether customer is an IT Employee (IT\_Employee = ‘Y’). If yes, check whether respective company has Tie up with HXB.                                                                   i.       If yes (Tie\_Up = ‘YES’), apply 7% discount on Bill\_Amount and proceed to step 4.                                                                             Final\_Bill\_Amount = Bill\_Amount – (Bill\_Amount \* 7 / 100)                                                                  ii.       If not (Tie\_Up = ‘NO’), reduce Rs. 50 from Bill\_Amount.                                                                            Final\_Bill\_Amount = Bill\_Amount – 50   * + - * + If customer is not a Member (Member = ‘NO’) and customer is not an IT employee (IT\_Employee = ‘N’), then no special offer has to be applied. Final\_Bill\_Amount will be the Bill\_Amount calculated in previous step. Final\_Bill\_Amount = Bill\_Amount   4. Write the inserted information into output file as per below format  *NOTE:* **One space** *filler to be inserted between each field.*    **https://assessment.cognizant.com/assessment/file.php?file=%2F326%2F2F_Jul%2014%2FLAB%202F_9.JPG   JCL:**  a)     Compile and execute the above COBOL program. RUNJCL has to be stored in member with the naming convention **"JB12F<YYY>"**  Note: Sample compile and run JCL is available in “TLABADM.LAB.SYS.COMPRUN”.  **SPUFI:**   1. SPUFI Member Naming Convention: **SB82F<yyy>**, where <yyy> denotes the last 3 digits of your TLAB user ID. Member **should not contain** any **commented queries**.    * Select the second maximum Final Bill Amount from Bill\_Detail table using column function. Expected field from query is FINAL\_BILL\_AMOUNT.     **INSTRUCTIONS:**   * Follow the coding standard and error handling as applicable. * Copy checklist member L2F from library TLABADM.LAB.SYS.CHECKLST and complete the same. Place the completed checklist into final deliverable PDS with naming convention L2F<yyy>. * Copy the final modules in the PDS ‘<TLABID>.<X>.<Y>.PDS’.   Where X -> L2/L2AT1/L2AT2 (L2 for Actuals, L2AT1 for first attempt, L2AT2 for second attempt) and Y denotes 8 digit Batch name. Example:  Y- CHNMJ001  [Example for L2 PDS - TLAB001.L2.CHNMJ001.PDS          L2 AT1 PDS - TLAB001.L2AT1.CHNMJ001.PDS          L2 AT2 PDS - TLAB001.L2AT2.CHNMJ001.PDS].   * Follow the below naming convention for the members, where the JCL’s, SPUFI input’s need to be placed:   + For JCL’s, the member name should be “JB<x>2F<yyy>”     - Note: Where <x> denotes the member number and <yyy> denotes the last 3 digits of your user ID.     - Ex: If there are 2 members for JCL created by ID TLAB001, the member name should be “JB**1**2F001” and”JB**2**2F001”      * For SPUFI, the member name should be “SB<x>2F<yyy>”   + Note: Where <x> denotes the member number and <yyy> denotes the last 3 digits of your user ID.   + Ex: If there are 2 members for SPUFI created by ID TLAB001, the member name should be “SB**1**2F001” and”SB**2**2F001”      * For COBOL, the member name should be “CB<x>2F<yyy>”   + Note: Where <x> denotes the member number and <yyy> denotes the last 3 digits of your user ID.   + Ex: If there are 2 members for COBOL created by ID TLAB001, the member name should be “CB**1**2F001” and”CB**2**2F001”      * For DCLGEN, the member name should be “DB<x>2F<yyy>”   + Note: Where <x> denotes the member number and <yyy> denotes the last 3 digits of your user ID.   + Ex: If there are 2 members for DCLGEN created by ID TLAB001, the member name should be “DB12F001” and”DB22F001”.   **EXPECTED DELIVERABLES in Mainframe PDS:**   * COBOL program in member name as suggested in instructions. * SPUFI Queries in member names as suggested in DB2 and SPUFI sections. * RUNJCL for the COBOL program. * DCLGEN in member name as suggested in instructions. * Completed checklist. | |

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| **Available from:** | Thursday, 21 August 2014, 02:03 PM |
| **Due date:** | Thursday, 21 August 2014, 06:03 PM |

**Submission draft**

**Final submission for assignment marking**

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