

TEAMWARE SOLUTIONS

Mainframe Development Capstone Project – Mainframe Payroll System (MPS)

Date: 13/02/2026

Submitted by: Girish K T(GAMA03)

Project Goal: Automated payroll processing using DB2 5-table join with dynamic calendar/leap-year logic.

Section 1: Database Schema

- **Tables Used:** DEPARTMENTS, EMPDEPT, EMPNAME, EMPSAL, DAYSWRKD.

a. DEPARTMENTS:

```
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
create table departments(
    dept_id char(03) not null primary key with default 'oth',
    dept_name char(15) not null with default
)
in dbmate1.tsgama03;
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
commit;
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
```

b. EMPDEPT:

```
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
create table empdept(
    empno int not null primary key,
    dept_id char(03) not null with default 'oth'
)
in dbmate1.tsgama03;
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
commit;
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
```

c. EMPNAME:

```
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
create table empname(empno int, name char(20))
in dbmate1.tsgama03;
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+
```

d. EMPSAL:

```
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+-----+-----+
 create table empsal(
      emp_id          int not null primary key,
      emp_monthly_sal integer not null with default 1000,
      emp_monthly_bonus integer not null with default
)
      in dbmate1.tsgama03;                                000100000
-----+-----+-----+-----+-----+-----+-----+-----+-----+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+-----+-----+
 commit;                                              000700000
-----+-----+-----+-----+-----+-----+-----+-----+-----+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

e. DAYSWRKD:

```
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+-----+
CREATE TABLE DAYSWRKD(
    EMP_ID           INT      NOT NULL ,
    WORK_YEAR        SMALLINT NOT NULL ,
    WORK_MONTH       SMALLINT NOT NULL ,
    DAYS_WORKED     SMALLINT NOT NULL

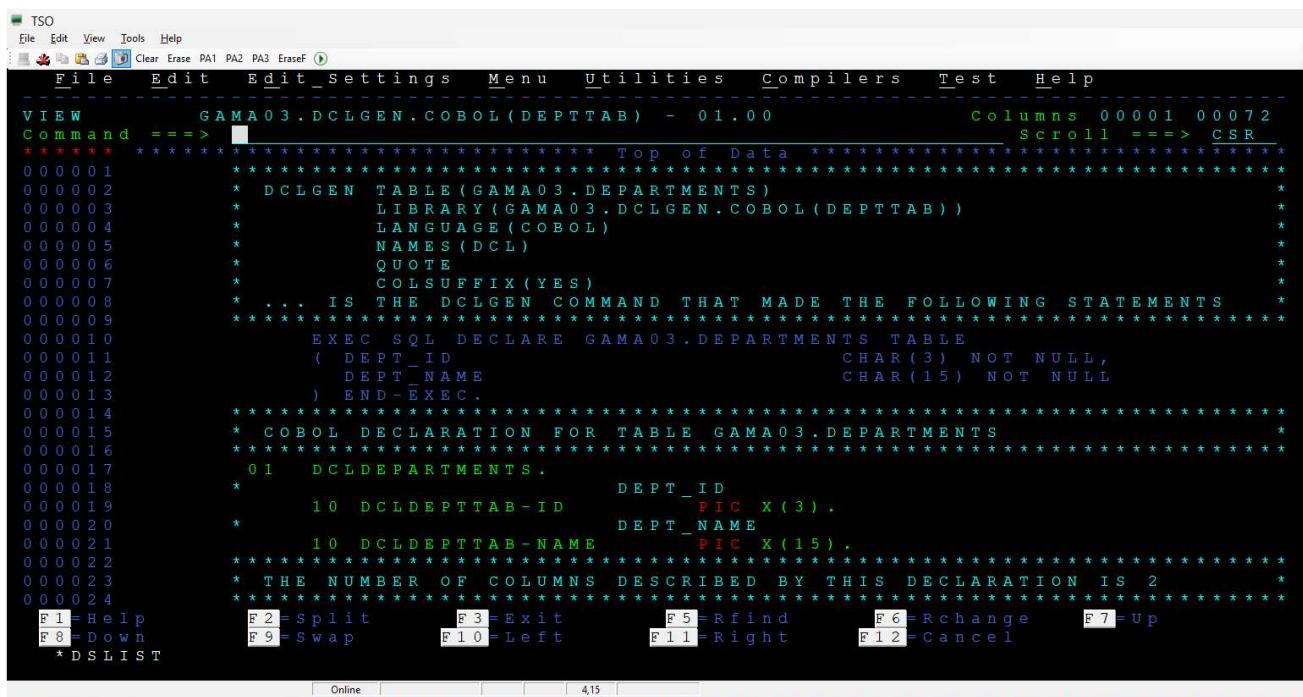
    CHECK (WORK_MONTH BETWEEN 1 AND 12),
    CHECK (DAYS_WORKED BETWEEN 0 AND 31),

    PRIMARY KEY (EMP_ID, WORK_YEAR, WORK_MONTH)
)
IN DBMATE1.TSGAMA03;
-----+-----+-----+-----+-----+-----+-----+-----+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+-----+
COMMIT;
-----+-----+-----+-----+-----+-----+-----+-----+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```

Section 2: DB2 Declarations (DCLGEN)

These copybooks contain the SQL DECLARE TABLE statements and matching COBOL host variables. They ensure data type compatibility between DB2 and COBOL, allowing the program to handle binary integers and character fields accurately.

a. DEPARTMENTS(DEPTTAB):



b. EMPDEPT:

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW GAMA03.DCLGEN.COBOL(EMPDEPT) - 01.00 Columns 00001 00072

Command ==> Scroll ==> CSR

```
***** Top of Data *****
```

000001 * DCLGEN TABLE(GAMA03.EMPDEPT)

000002 * LIBRARY(GAMA03.DCLGEN.COBOL(EMPDEPT))

000003 * LANGUAGE(COBOL)

000004 * NAMES(DCL)

000005 * QUOTE

000006 * COLSUFFIX(YES)

000007 * . . . IS THE DCLGEN COMMAND THAT MADE THE FOLLOWING STATEMENTS

000008 * EXEC SQL DECLARE GAMA03.EMPDEPT TABLE

000009 * (EMPNO INTEGER NOT NULL,

000010 * DEPT_ID CHAR(3) NOT NULL

000011 *) END-EXEC.

000012 * COBOL DECLARATION FOR TABLE GAMA03.EMPDEPT

000013 * 01 DCLEMPDEPT.

000014 * EMPNO

000015 * 10 DCLDEPT-EMPNO

000016 * DEPT_ID

000017 * 10 DCLDEPT-DEPTTAB-ID

000018 * THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 2

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel

* D S LIST

c. EMPNAME:

```
TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
VIEW GAMA03.DCLGEN.COBOL(EMPNAME) - 01.00 Columns 00001 00072
Command ==> Scroll ==> CSR
***** Top of Data *****
000001 * DCLGEN TABLE(GAMA03.EMPNAME)
000002 * LIBRARY(GAMA03.DCLGEN.COBOL(EMPNAME))
000003 * LANGUAGE(COBOL)
000004 * NAMES(DCL)
000005 * QUOTE
000006 * COLSUFFIX(YES)
000007 * . . . IS THE DCLGEN COMMAND THAT MADE THE FOLLOWING STATEMENTS
000008 * EXEC SQL DECLARE GAMA03.EMPNAME TABLE
000009 * ( EMPNO           INTEGER,
000010 *      NAME            CHAR(20)
000011 * ) END-EXEC.
000012 *
000013 * COBOL DECLARATION FOR TABLE GAMA03.EMPNAME
000014 * 01 DCLEMPNAME.
000015 *
000016 *          10 DCLEMPNO          PIC S9(9) USAGE COMP.
000017 *
000018 *          10 DCLNAME          NAME
000019 *          10 DCLNAME          PIC X(20).
000020 *
000021 * THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 2
000022 *
000023 *
000024 F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
*D SLIST
```

d. EMPSAL:

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF ⌂
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW GAMA03.DCLGEN.COBOL(EMPSAL) - 01.00 Columns 00001 00072
Command ==> Scroll ==> CSR
000004 * LANGUAGE(COBOL)
000005 * NAMES(DCL)
000006 * QUOTE
000007 * COLSUFFIX(YES)
000008 * . IS THE DCLGEN COMMAND THAT MADE THE FOLLOWING STATEMENTS *
000009 * *****
000010 EXEC SQL DECLARE GAMA03.EMPSAL TABLE
000011 ( EMP_ID           INTEGER NOT NULL,
000012   EMP_MONTHLY_SAL  INTEGER NOT NULL,
000013   EMP_MONTHLY_BONUS INTEGER NOT NULL
000014 ) END-EXEC.
000015 *****
000016 * COBOL DECLARATION FOR TABLE GAMA03.EMPSAL
000017 *****
000018 01 DCLEMP.SAL.
000019 *          EMP_ID          PIC S9(9) USAGE COMP.
000020 10 DCLEMP-ID          PIC S9(9) USAGE COMP.
000021 *          EMP_MONTHLY_SAL  PIC S9(9) USAGE COMP.
000022 10 DCLEMP-MONTHLY-SAL PIC S9(9) USAGE COMP.
000023 *          EMP_MONTHLY_BONUS PIC S9(9) USAGE COMP.
000024 10 DCLEMP-MONTHLY-BONUS
000025 *          PIC S9(9) USAGE COMP.
000026 *****
000027 * THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 3
000028 01 DCLEMP.SAL.
F1=Help F2=Split F3=Exit F4=Find F5=Rchange F6=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
* DLIST

```

e. DAYSWRKD:

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF ⌂
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW GAMA03.DCLGEN.COBOL(DAYSWRKD) - 01.00 Columns 00001 00072
Command ==> Scroll ==> CSR
000005 * NAMES(DCL)
000006 * QUOTE
000007 * COLSUFFIX(YES)
000008 * . IS THE DCLGEN COMMAND THAT MADE THE FOLLOWING STATEMENTS *
000009 * *****
000010 EXEC SQL DECLARE GAMA03.DAYSWRKD TABLE
000011 ( EMP_ID           INTEGER NOT NULL,
000012   WORK_YEAR        SMALLINT NOT NULL,
000013   WORK_MONTH       SMALLINT NOT NULL,
000014   DAYS_WORKED     SMALLINT NOT NULL
000015 ) END-EXEC.
000016 *****
000017 * COBOL DECLARATION FOR TABLE GAMA03.DAYSWRKD
000018 *****
000019 01 DCLDAYSWRKD.
000020 *          EMP_ID          PIC S9(9) USAGE COMP.
000021 10 DCLEMP-ID          WORK_YEAR          PIC S9(4) USAGE COMP.
000022 *          WORK_MONTH      PIC S9(4) USAGE COMP.
000023 10 DCLWORK-MONTH    WORK_MONTH        PIC S9(4) USAGE COMP.
000024 *          DAYS_WORKED    PIC S9(4) USAGE COMP.
000025 *          PIC S9(4) USAGE COMP.
000026 *****
000027 * THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 4
000028 01 DCLDAYSWRKD.
F1=Help F2=Split F3=Exit F4=Find F5=Rchange F6=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
* DLIST

```

Section 3: SQL Logic & SPUFI

This screenshot displays the SQL query verified in SPUFI before integration. It uses CASE and MOD functions to calculate Leap Year days and prorated pay-outs directly at the database level for maximum performance.

```

TSO
File Edit View Tools Help
BROWSE GAMA03.SPUFI.OUT
Command ==> [ ] Line 00000000 Col 001 080
***** * * * * * Top of Data * * * * * Scroll ==> CSR
-----+-----+-----+-----+-----+-----+
SELECT D.DEPARTMENT_ID,
       D.DEPARTMENT_NAME,
       N.EMPNO AS EMP_ID,
       N.NAME AS EMP_NAME,
       S.EMP_MONTHLY_SAL AS MON_SAL,
       S.EMP_MONTHLY_BONUS AS BONUS,
       W.WORK_YEAR AS YR,
       W.WORK_MONTH AS MO,
-- LOGIC TO GET TOTAL DAYS IN MONTH
CASE
    WHEN W.WORK_MONTH IN (1, 3, 5, 7, 8, 10, 12) THEN 31
    WHEN W.WORK_MONTH IN (4, 6, 9, 11) THEN 30
    WHEN W.WORK_MONTH = 2 THEN
        CASE WHEN MOD(W.WORK_YEAR, 4) = 0 THEN 29
             ELSE 28 END
END AS TOT_DAYS,
W.DAYS_WORKED AS WRK_DAYS,
-- LOGIC TO GET LEAVES TAKEN
((CASE
    WHEN W.WORK_MONTH IN (1, 3, 5, 7, 8, 10, 12) THEN 31
    WHEN W.WORK_MONTH IN (4, 6, 9, 11) THEN 30
    ELSE (CASE WHEN MOD(W.WORK_YEAR, 4) = 0 THEN 29
               ELSE 28 END)
F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
-COBOL DSNEWSPO1 RUN SPOOL DLIST FILEMGR *ISRBROB
-----+-----+-----+-----+-----+-----+

```

```

TSO
File Edit View Tools Help
BROWSE GAMA03.SPUFI.OUT
Command ==> [ ] Line 00000025 Col 001 080
-----+-----+-----+-----+-----+-----+
CASE
    WHEN W.DAYS_WORKED = 0 THEN S.EMP_MONTHLY_BONUS
    ELSE
        ((CAST(S.EMP_MONTHLY_SAL AS DECIMAL(15, 2)) /
        (CASE
            WHEN W.WORK_MONTH IN (1, 3, 5, 7, 8, 10, 12) THEN 31
            WHEN W.WORK_MONTH IN (4, 6, 9, 11) THEN 30
            ELSE (CASE WHEN MOD(W.WORK_YEAR, 4) = 0 THEN 29
                       ELSE 28 END)
END)) * W.DAYS_WORKED) + S.EMP_MONTHLY_BONUS
END AS TOTAL_PAYOUT
FROM DEPARTMENTS D,
     EMPDEPT ED,
     EMPNAME N,
     EMPSAL S,
     DAYSWRKD W
WHERE D.DEPARTMENT_ID = ED.DEPARTMENT_ID
  AND ED.EMPNO = N.EMPNO
  AND N.EMPNO = S.EMP_ID
  AND N.EMPNO = W.EMP_ID
  AND W.WORK_YEAR = 2024
  AND W.WORK_MONTH = 04;
-----+-----+-----+-----+-----+-----+
DEPT_ID DEPT_NAME          EMP_ID EMP_NAME      MON_SAL
F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
-COBOL *ISRBROB RUN -ISFPUC4 DLIST DLIST DLIST
-----+-----+-----+-----+-----+-----+

```

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

Menu Utilities Compilers Help

BROWSE GAMA03.SPUFI.OUT

Command ==> █

					Line 00000050 Col 001 080	Scrol1 ==> PAGE
FIN	FINANCE		1	Arjun Sharma	92000	
FIN	FINANCE		2	priya nair	75000	
adm	admin		3	Amit Patel	110000	
nr	human resource		4	sneha rao	65000	
sal	sales		5	vikram singh	125000	
dev	development		6	ananya das	88000	
dev	development		7	rohan mehta	95000	
FIN	FINANCE		8	kavita iyer	72000	
adm	admin		9	Suresh reddy	105000	
nr	human resource		10	neha gupta	68000	
DEPT_ID	DEPT_NAME	EMP_ID	EMP_NAME	MON_SAL		
sal	sales	11	Rahul verma	35000		
dev	development	12	Pooja hegde	15000		
dev	development	13	Deepak Joshi	11000		
fin	finance	14	shweta mishra	79000		
adm	admin	15	manoj kumar	44000		
hr	human resource	16	ishani bose	90000		
sal	sales	17	akash bansal	49000		
dev	development	18	ritu phogat	10000		
oth	others	19	siddharth roy	82000		
dev	development	20	zoya khan	16500		
DSNE610I NUMBER OF ROWS DISPLAYED IS 20						
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100						
F1=Help	F2=Split	F3=Exit	F5=Rfind	F7=Up	F8=Down	F9=Swap
F10=Left	F11=Right	F12=Cancel				
COBOL	* ISRBR0B RUN	- ISFPUC4	DLIST	DLIST	DLIST	

Online 4.15

0 0 0 0 Z Z

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

Menu Utilities Compilers Help

BROWSE GAMA03.SPUFI.OUT

Command ==> █

					Line 00000050 Col 081 160	Scrol1 ==> PAGE
6000	2024	4	30	30	0	
4500	2024	4	30	30	0	
8000	2024	4	30	28	2	
4000	2024	4	30	30	0	
10000	2024	4	30	30	0	
5500	2024	4	30	25	5	
7000	2024	4	30	22	8	
4200	2024	4	30	30	0	
9000	2024	4	30	28	2	
4100	2024	4	30	30	0	
BONUS	YR	MO	TOT_DAYS	WRK_DAYS	LEAVES	
7000	2024	4	30	20	10	
9000	2024	4	30	21	9	
8000	2024	4	30	30	0	
9000	2024	4	30	29	1	
5500	2024	4	30	0	30	
6500	2024	4	30	15	15	
1500	2024	4	30	10	20	
7800	2024	4	30	20	10	
4900	2024	4	30	18	12	
2000	2024	4	30	30	0	
F1=Help	F2=Split	F3=Exit	F5=Rfind	F7=Up	F8=Down	F9=Swap
F10=Left	F11=Right	F12=Cancel				
COBOL	* ISRBR0B RUN	- ISFPUC4	DLIST	DLIST	DLIST	

Online 4.15

0 0 0 0 Z Z

The screenshot shows a terminal window titled "TSO" with the following menu bar:

- File Edit View Tools Help
- Clear Erase PA1 PA2 PA3 EraseF
- Menu Utilities Compilers Help

The command line shows:

```
BROWSE GAMAO3.SPUFI.OUT
```

Output from the COBOL program:

```
Line 00000050 Col 161 240
Command ==> PAGE

9 7 9 9 9 . 9 9 9 9 8 0
9 5 0 0 . 0 0 0 0 0 0
1 0 6 6 6 . 6 6 6 6 4 8
6 8 9 9 9 . 9 9 9 9 8 0
3 4 9 9 9 . 9 9 9 9 8 0
7 8 8 3 3 . 3 3 3 3 2 5
7 6 6 6 6 . 6 6 6 6 5 2
7 6 2 0 0 . 0 0 0 0 0 0
0 7 0 0 0 . 0 0 0 0 0 0
7 2 0 9 9 . 9 9 9 9 8 0
TOTAL PAYOUT
3 0 3 3 3 . 3 3 3 3 2 0
1 9 5 0 0 . 0 0 0 0 0 0
1 1 7 9 9 . 9 9 9 9 8 0
9 5 3 6 6 . 6 6 6 6 5 7
5 5 0 0 . 0 0 0 0 0 0
5 1 5 0 0 . 0 0 0 0 0 0
1 7 8 3 3 . 3 3 3 3 3 0
7 4 4 6 . 6 6 6 6 6 0
5 4 0 9 9 . 9 9 9 9 9 4
1 8 5 0 0 . 0 0 0 0 0 0

F1=Help F2=Split F3=Exit F5=Find F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
COBOL * ISRBR0B RUN - ISFPCK4 DLIST DLIST DLIST
```

Bottom status bar:

```
Online | 4:15 |
```

Section 4: COBOL Source Code

This section contains the batch processing logic using a DB2 cursor to handle the 5-table join. The program utilizes modular paragraphs and file status checks to ensure robust execution and clean report generation.

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT GAMA03.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072

Command ==> [] Scroll ==> CSR

```
=C O L S > -----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+
0 0 0 0 2 4          0 5   WS-SQL-LEAVES          PIC S 9 (4)    COMP.
0 0 0 0 2 5          0 5   WS-SQL-PAYOUT          PIC S 9 (13) V 99  COMP-3.
0 0 0 0 2 6
0 0 0 0 2 7
* COPYBOOK
0 0 0 0 2 8      COPY PAYRPT.
0 0 0 0 2 9
0 0 0 0 3 0
* DCLGEN COPYBOOKS
0 0 0 0 3 1      EXEC SQL INCLUDE SQLCA      END-EXEC.
0 0 0 0 3 2      EXEC SQL INCLUDE DEPTTAB      END-EXEC.
0 0 0 0 3 3      EXEC SQL INCLUDE EMPDEPT      END-EXEC.
0 0 0 0 3 4      EXEC SQL INCLUDE EMPNAME      END-EXEC.
0 0 0 0 3 5      EXEC SQL INCLUDE EMPSAL      END-EXEC.
0 0 0 0 3 6      EXEC SQL INCLUDE DAYSWRKD      END-EXEC.
0 0 0 0 3 7      EXEC SQL
                  DECLARE ASGNCUR CURSOR FOR
0 0 0 0 3 8      SELECT D.DEPT_ID,
                  D.DEPT_NAME,
0 0 0 0 3 9      N.EMPNO,
                  N.NAME,
                  S.EMP_MONTHLY_SAL,
                  S.EMP_MONTHLY_BONUS,
0 0 0 0 4 0
0 0 0 0 4 1
0 0 0 0 4 2
0 0 0 0 4 3
0 0 0 0 4 4
0 0 0 0 4 5
0 0 0 0 4 6
0 0 0 0 4 7
CASE
  WHEN W.WORK_MONTH IN (1,3,5,7,8,10,12)
    THEN 31
  WHEN W.WORK_MONTH IN (4,6,9,11)
    THEN 30
  ELSE CASE
    WHEN MOD(W.WORK_YEAR, 4) = 0
      THEN 29
    ELSE 28
  END
END,
W.DAYS_WORKED,
(CASE
  WHEN W.WORK_MONTH IN (1,3,5,7,8,10,12) THEN 31
  WHEN W.WORK_MONTH IN (4,6,9,11) THEN 30
  ELSE CASE
    WHEN MOD(W.WORK_YEAR, 4) = 0
      THEN 29
    ELSE 28
  END
END) - W.DAYS_WORKED),
CASE
  WHEN W.DAYS_WORKED = 0
    F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
  F8=Down F9=Swap F10=Left F11=Right F12=Cancel
  * COBOL - DSNESPO RUN
  SPOOL DLIST FILEMGR
```

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
* COBOL - DSNESPO RUN
 SPOOL DLIST FILEMGR

Online | 4.15 | Exit | F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19 F20 F21 F22 F23 F24 F25 F26 F27 F28 F29 F30 F31 F32 F33 F34 F35 F36 F37 F38 F39 F40 F41 F42 F43 F44 F45 F46 F47 F48 F49 F50 F51 F52 F53 F54 F55 F56 F57 F58 F59 F60 F61 F62 F63 F64 F65 F66 F67 F68 F69 F70 F71

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT GAMA03.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072

Command ==> [] Scroll ==> CSR

```
=C O L S > -----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+
0 0 0 0 4 8
0 0 0 0 4 9
0 0 0 0 5 0
0 0 0 0 5 1
0 0 0 0 5 2
0 0 0 0 5 3
0 0 0 0 5 4
0 0 0 0 5 5
0 0 0 0 5 6
0 0 0 0 5 7
0 0 0 0 5 8
0 0 0 0 5 9
0 0 0 0 6 0
0 0 0 0 6 1
0 0 0 0 6 2
0 0 0 0 6 3
0 0 0 0 6 4
0 0 0 0 6 5
0 0 0 0 6 6
0 0 0 0 6 7
0 0 0 0 6 8
0 0 0 0 6 9
0 0 0 0 7 0
0 0 0 0 7 1
CASE
  WHEN W.WORK_MONTH IN (1,3,5,7,8,10,12)
    THEN 31
  WHEN W.WORK_MONTH IN (4,6,9,11)
    THEN 30
  ELSE CASE
    WHEN MOD(W.WORK_YEAR, 4) = 0
      THEN 29
    ELSE 28
  END
END,
W.DAYS_WORKED,
(CASE
  WHEN W.WORK_MONTH IN (1,3,5,7,8,10,12) THEN 31
  WHEN W.WORK_MONTH IN (4,6,9,11) THEN 30
  ELSE CASE
    WHEN MOD(W.WORK_YEAR, 4) = 0
      THEN 29
    ELSE 28
  END
END) - W.DAYS_WORKED),
CASE
  WHEN W.DAYS_WORKED = 0
    F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
  F8=Down F9=Swap F10=Left F11=Right F12=Cancel
  * COBOL - DSNESPO RUN
  SPOOL DLIST FILEMGR
```

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
* COBOL - DSNESPO RUN
 SPOOL DLIST FILEMGR

Online | 4.15 | Exit | F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19 F20 F21 F22 F23 F24 F25 F26 F27 F28 F29 F20 F21 F22 F23 F24 F25 F26 F27 F28 F29 F30 F31 F32 F33 F34 F35 F36 F37 F38 F39 F30 F31 F32 F33 F34 F35 F36 F37 F38 F39 F40 F41 F42 F43 F44 F45 F46 F47 F48 F49 F40 F41 F42 F43 F44 F45 F46 F47 F48 F49 F50 F51 F52 F53 F54 F55 F56 F57 F58 F59 F50 F51 F52 F53 F54 F55 F56 F57 F58 F59 F60 F61 F62 F63 F64 F65 F66 F67 F68 F69 F60 F61 F62 F63 F64 F65 F66 F67 F68 F69 F70 F71

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
EDIT GAMA03.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072
Command ==> THEN S.EMP_MONTHLY_BONUS
= C O L S > - - - + - - - 1 - - - + - - - 2 - - - + - - - 3 - - - + - - - 4 - - - + - - - 5 - - - + - - - 6 - - - + - - - 7 - -
0 0 0 0 7 2
0 0 0 0 7 3
0 0 0 0 7 4
0 0 0 0 7 5
0 0 0 0 7 6
0 0 0 0 7 7
0 0 0 0 7 8
0 0 0 0 7 9
0 0 0 0 8 0
0 0 0 0 8 1
0 0 0 0 8 2
0 0 0 0 8 3
0 0 0 0 8 4
0 0 0 0 8 5
0 0 0 0 8 6
0 0 0 0 8 7
0 0 0 0 8 8
0 0 0 0 8 9
0 0 0 0 9 0
0 0 0 0 9 1
0 0 0 0 9 2
0 0 0 0 9 3
0 0 0 0 9 4
0 0 0 0 9 5
      WHERE D.DEPT_ID = ED.DEPT_ID
F1=Help F2=Split F3=Exit F4=Find F5=Rchange F6=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
* COBOL - DSNESPO RUN SPOOL DLIST FILEMGR

```

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
EDIT GAMA03.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072
Command ==> AND ED.EMPNO = N.EMPNO
= C O L S > - - - + - - - 1 - - - + - - - 2 - - - + - - - 3 - - - + - - - 4 - - - + - - - 5 - - - + - - - 6 - - - + - - - 7 - -
0 0 0 0 9 6
0 0 0 0 9 7
0 0 0 0 9 8
0 0 0 0 9 9
0 0 0 1 0 0
0 0 0 1 0 1
0 0 0 1 0 2
0 0 0 1 0 3
0 0 0 1 0 4
0 0 0 1 0 5
0 0 0 1 0 6
0 0 0 1 0 7
0 0 0 1 0 8
0 0 0 1 0 9
0 0 0 1 1 0
0 0 0 1 1 1
0 0 0 1 1 2
0 0 0 1 1 3
0 0 0 1 1 4
0 0 0 1 1 5
0 0 0 1 1 6
0 0 0 1 1 7
0 0 0 1 1 8
0 0 0 1 1 9
      AND N.EMPNO = S.EMP_ID
      AND N.EMPNO = W.EMP_ID
      AND W.WORK_YEAR = :DCLWORK-YEAR
      AND W.WORK_MONTH = :DCLWORK-MONTH
      END-EXEC.
      PROCEDURE DIVISION.
      0000-MAIN.
      DISPLAY 'PROGRAM STARTING...'.
      ACCEPT WS-SYSIN-DATA FROM SYSIN
      MOVE WS-SYSIN-DATA(1:4) TO DCLWORK-YEAR
      MOVE WS-SYSIN-DATA(5:2) TO DCLWORK-MONTH
      PERFORM 1000-OPEN
      PERFORM 2000-PROCESS
      UNTIL END-OF-CUR = 'Y'
      PERFORM 3000-CLOSE
      DISPLAY 'NORMAL TERMINATION. BYE !'
      GOBACK.
      1000-OPEN.
      DISPLAY 'OPENING DB2 CURSOR...'.
      EXEC SQL OPEN ASNCUR END-EXEC
      IF SQLCODE NOT = 0
      PERFORM 9000-SQL-ERROR
      END-IF
F1=Help F2=Split F3=Exit F4=Find F5=Rchange F6=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
* COBOL - DSNESPO RUN SPOOL DLIST FILEMGR

```

```
TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
EDIT GAMAO3.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072
Command ==> Command ==> Scroll ==> CSR
C O L S > - - - + - - - 1 - - - + - - - 2 - - - + - - - 3 - - - + - - - 4 - - - + - - - 5 - - - + - - - 6 - - - + - - - 7 - -
0 0 0 1 2 0      DISPLAY 'OPENING OUTFILE . . . '
0 0 0 1 2 1      OPEN OUTPUT OUTFILE
0 0 0 1 2 2      IF WS-OUT-FILE-STATUS NOT = '00'
0 0 0 1 2 3      DISPLAY 'FILE OPEN ERROR: '
0 0 0 1 2 4      WS-OUT-FILE-STATUS
0 0 0 1 2 5      STOP RUN
0 0 0 1 2 6      END-IF.
0 0 0 1 2 7      2000-PROCESS.
0 0 0 1 2 8      EXEC SQL
0 0 0 1 2 9      F E T C H   A S G N C U R   I N T O
0 0 0 1 3 0      : D C L D E P T T A B - I D ,
0 0 0 1 3 1      : D C L D E P T T A B - N A M E ,
0 0 0 1 3 2      : D C L E M P N O ,
0 0 0 1 3 3      : D C L N A M E ,
0 0 0 1 3 4      : D C L E M P - M O N T H L Y - S A L ,
0 0 0 1 3 5      : D C L E M P - M O N T H L Y - B O N U S ,
0 0 0 1 3 6      : D C L W O R K - Y E A R ,
0 0 0 1 3 7      : D C L W O R K - M O N T H ,
0 0 0 1 3 8      : W S - S Q L - T O T - D A Y S ,
0 0 0 1 3 9      : D C L D A Y S - W O R K E D ,
0 0 0 1 4 0      : W S - S Q L - L E A V E S '
0 0 0 1 4 1      : W S - S Q L - P A Y O U T
0 0 0 1 4 2      E N D - E X E C
0 0 0 1 4 3      I F   S Q L C O D E = 0
F 1 = H e l p   F 2 = S p l i t   F 3 = E x i t   F 5 = R f i n d   F 6 = R c h a n g e   F 7 = U p
F 8 = D o w n   F 9 = S w a p    F 1 0 = L e f t   F 1 1 = R i g h t   F 1 2 = C a n c e l
* C O B O L   - D S N E S P O   R U N   S P O O L   D S L I S T   F I L E M G R
```

```
TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
GAMA03.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072
Command ===> C S R
= C O L S > - - - + - - - 1 - - - + - - - 2 - - - + - - - 3 - - - + - - - 4 - - - + - - - 5 - - - + - - - 6 - - - + - - - 7 - -
0 0 0 1 4 4      ADD 1 TO WS-READ-COUNT
0 0 0 1 4 5      MOVE DCLDEPTTAB-ID TO WS-DEPT-ID
0 0 0 1 4 6      MOVE DCLDEPTTAB-NAME TO WS-DEPT-NAME
0 0 0 1 4 7      MOVE DCLEMPNO TO WS-EMP-ID
0 0 0 1 4 8      MOVE DCLNAME TO WS-EMP-NAME
0 0 0 1 4 9      MOVE DCLEMP-MONTHLY-SAL TO WS-SAL
0 0 0 1 5 0      MOVE DCLEMP-MONTHLY-BONUS TO WS-BONUS
0 0 0 1 5 1      MOVE DCLWORK-YEAR TO WS-YEAR
0 0 0 1 5 2      MOVE DCLWORK-MONTH TO WS-MONTH
0 0 0 1 5 3      MOVE WS-SQL-TOT-DAYS TO WS-TOT-DAYS
0 0 0 1 5 4      MOVE DCLDAYS-WORKED TO WS-WRK-DAYS
0 0 0 1 5 5      MOVE WS-SQL-LEAVES TO WS-LEAVES
0 0 0 1 5 6      MOVE WS-SQL-PAYOUT TO WS-TOTAL-PAYOUT
0 0 0 1 5 7      WRITE OUT-REC-BUF FROM WS-OUT-REC
0 0 0 1 5 8      IF WS-OUT-FILE-STATUS = '0'
0 0 0 1 5 9          ADD 1 TO WS-WRITE-COUNT
0 0 0 1 6 0      ELSE
0 0 0 1 6 1          DISPLAY 'WRITE ERROR: '
0 0 0 1 6 2          WS-OUT-FILE-STATUS
0 0 0 1 6 3          STOP RUN
0 0 0 1 6 4      END-IF
0 0 0 1 6 5      ELSE
0 0 0 1 6 6          IF SQLCODE = 100
0 0 0 1 6 7              MOVE 'Y' TO END-OF-CUR
F 1 = Help      F 2 = Split      F 3 = Exit      F 5 = Rfind      F 6 = Rchange      F 7 = Up
F 8 = Down      F 9 = Swap       F 10 = Left       F 11 = Right      F 12 = Cancel
* COBOL - DSNESP0 RUN      SPOOL      DLIST      FILEMGR
```

TSO
File Edit View Tools Help
Clear Erase PAT PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
EDIT GAMMA03.COBOL.SRCLIB(DBTPROG) - 01.08 Columns 00001 00072
Command ==> **COLUMNS**
= COLS > 000168
000169 ELSE
000170 PERFORM 9000-SQL-ERROR
000171 END-IF.
000172 3000-CLOSE.
000173 DISPLAY 'CLOSING RESOURCES...'
000174 EXEC SQL CLOSE ASNCUR END-EXEC
000175 CLOSE OUTFILE
000176 IF WS-OUT-FILE-STATUS NOT = '00'
000177 DISPLAY 'FILE CLOSE ERROR:'
000178 WS-OUT-FILE-STATUS
000179 STOP RUN
000180 END-IF.
000181 DISPLAY 'RECORDS READ : ' WS-READ-COUNT
000182 DISPLAY 'RECORDS WRITTEN: ' WS-WRITE-COUNT.
000183 9000-SQL-ERROR.
000184 MOVE SQLCODE TO WS-DISP-SQLCODE
000185 DISPLAY 'DB2 SQL ERROR: ' WS-DISP-SQLCODE
000186 STOP RUN.
***** Bottom of Data *****

Section 5: JCL Execution

This part shows the JCL used to run the program, highlighting the `SYSIN DD * statement`. It demonstrates how the Year and Month are passed dynamically to the program to process different payroll periods.

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
EDIT GAMA03.JOBLIB(COBDBRUN) - 01.25
Command ==> [ ] Columns 00001 00072
000025 /* 
000026 // EMPOUT DD DSN=GAMA03.TEST.DB2COBOL.REPORT,
000027 // DISP=(NEW,CATLG,DELETE),
000028 // UNIT=SYSDA,
000029 // SPACE=(TRK,(5,5),RLSE),
000030 // DCB=(RECFM=FB,LRECL=150,BLKSIZE=0)
000031 // SYSIN DD *
000032 202601
000033 /*
***** Bottom of Data *****

F1=Help F2=Split F3=Exit F5=Find F6=Change F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
COBOL ISRBROBA * RUN - SPOOL DSLIST FILEMGR DSNESP01

```

Section 6: Output File & File Manager

This section shows the generated sequential file viewed in File Manager. The pipe-delimited (|) data confirms the final payroll calculations, including the 29-day Leap Year logic and the total pay-outs for all 20 employees.

f. Copybook: PAYRPT

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Settings Menu Utilities Compilers Test Help
EDIT GAMA03.COPYLIB(PAYRPT) - 01.06
Command ==> [ ] Columns 00001 00072
***** Top of Data *****
000100 01 WS-OUT-REC.
000200 05 WS-DEPT-ID PIC X(03).
000300 05 FILELER PIC X(01) VALUE '|.
000400 05 WS-DEPT-NAME PIC X(15).
000500 05 FILELER PIC X(01) VALUE '|.
000600 05 WS-EMP-ID PIC 9(09).
000700 05 FILELER PIC X(01) VALUE '|.
000800 05 WS-EMP-NAME PIC X(20).
000900 05 FILELER PIC X(01) VALUE '|.
001000 05 WS-SAL PIC 9(07).
001100 05 FILELER PIC X(01) VALUE '|.
001200 05 WS-BONUS PIC 9(06).
001300 05 FILELER PIC X(01) VALUE '|.
001400 05 WS-YEAR PIC 9(04).
001500 05 FILELER PIC X(01) VALUE '-'.
001600 05 WS-MONTH PIC 9(02).
001700 05 FILELER PIC X(01) VALUE '|.
001800 05 WS-TOT-DAYS PIC 9(02).
001900 05 FILELER PIC X(01) VALUE '|.
002000 05 WS-WRK-DAYS PIC 9(02).
002100 05 FILELER PIC X(01) VALUE '|.
002200 05 WS-LEAVES PIC 9(02).
002300 05 FILELER PIC X(01) VALUE '|.
002400 05 WS-TOTAL-PAYOUT PIC 9(09).99.

F1=Help F2=Split F3=Exit F5=Find F6=Change F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
COBOL DSNESP01 RUN - ISFPUC4 DSLIST DSLIST * DSLIST

```

g. SPOOL:

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
Display Filter View Print Options Search Help
SDSF OUTPUT DISPLAY GAMA03D JOB 08244 DSID 107 LINE 0 COLUMNS 02-81
COMMAND INPUT ==> █ SCROLL ===> PAGE
***** TOP OF DATA *****
PROGRAM STARTING...
OPENING DB2 CURSOR...
OPENING OUTFILE...
CLOSING RESOURCES...
RECORDS READ : 00020
RECORDS WRITTEN: 00020
NORMAL TERMINATION. BYE!
***** BOTTOM OF DATA *****

F1=HELP F2=SPLIT F3=END F4=RETURN F5=IFIND F6=BOOK
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE
-COBOL DSNESPO1 RUN *ISFPUCU4 DSLIST FILEMGR DSLIST

```

h. OUTPUT REPORT PSFILE:

```

TSO
File Edit Edit_Settings Menu Utilities Compilers Test Help
Clear Erase PA1 PA2 PA3 EraseF
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW GAMA03.TEST.DB2COBOL.REPORT Columns 00001 00072
Command ==> █ Scroll ===> CSR
*** MSG - Warning - The UNDO command is not available until you change
*** MSG - your edit profile using the command RECOVERY ON.
000001 FIN|FINANCE |00000001|Arjun Sharma |0092000|006000|2026-0
000002 FIN|FINANCE |00000002|priya nair |0075000|004500|2026-0
000003 adm|admin |00000003|Amit Patel |0110000|008000|2026-0
000004 hr|human resource |00000004|sneha rao |0065000|004000|2026-0
000005 sal|sales |00000005|vikram singh |0125000|010000|2026-0
000006 dev|development |00000006|ananya das |0088000|005500|2026-0
000007 dev|development |00000007|rohan mehta |0095000|007000|2026-0
000008 FIN|FINANCE |00000008|kavita iyer |0072000|004200|2026-0
000009 adm|admin |00000009|Suresh reddy |0105000|009000|2026-0
000010 hr|human resource |00000010|neha gupta |0068000|004100|2026-0
000011 sal|sales |00000011|Rahul verma |0035000|007000|2026-0
000012 dev|development |00000012|Pooja hegda |0015000|009000|2026-0
000013 dev|development |00000013|Deepak Joshi |0011000|008000|2026-0
000014 fin|finance |00000014|shweta mishra |0079000|009000|2026-0
000015 adm|admin |00000015|manoj kumar |0044000|005500|2026-0
000016 hr|human resource |00000016|ishani bose |0090000|006500|2026-0
000017 sal|sales |00000017|akash bansal |0049000|001500|2026-0
000018 dev|development |00000018|ritu phogat |0010000|000780|2026-0
000019 oth|others |00000019|siddharth roy |0082000|004900|2026-0
000020 dev|development |00000020|zoya khan |0016500|002000|2026-0
*** Bottom of Data ***
F1=Help F2=Split F3=Exit F5=Rchange F6=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
-COBOL DSNESPO1 RUN *ISFPUCU41 DSLIST FILEMGR *DSLIST

```

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

File Edit Settings Menu Utilities Compilers Test Help

VIEW GAMA03.TEST.DB2COBOL.REPORT

Columns 00073 00144
Scroll ==> CSR

***** * * * * * Top of Data * * * * * *****

= MSG> - Warning - The UNDO command is not available until you change
= MSG> your edit profile using the command RECOVERY ON.

000001 1 | 31 | 31 | 00 | 000097999.99
000002 1 | 31 | 31 | 00 | 000079499.99
000003 1 | 31 | 28 | 03 | 0000107354.83
000004 1 | 31 | 30 | 01 | 000066903.22
000005 1 | 31 | 31 | 00 | 0000134999.99
000006 1 | 31 | 20 | 11 | 000062274.19
000007 1 | 31 | 25 | 06 | 000083612.90
000008 1 | 31 | 31 | 00 | 0000761999.99
000009 1 | 31 | 20 | 11 | 000076741.93
000010 1 | 31 | 25 | 06 | 000058938.70
000011 1 | 31 | 31 | 00 | 0000419999.99
000012 1 | 31 | 29 | 02 | 000023032.25
000013 1 | 31 | 31 | 00 | 0000117999.99
000014 1 | 31 | 27 | 04 | 000077806.45
000015 1 | 31 | 00 | 31 | 000005500.00
000016 1 | 31 | 15 | 16 | 000050048.38
000017 1 | 31 | 18 | 13 | 000029951.61
000018 1 | 31 | 20 | 11 | 000007231.61
000019 1 | 31 | 10 | 21 | 000031351.61
000020 1 | 31 | 31 | 00 | 0000184999.99

***** * * * * * Bottom of Data * * * * * *****

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
- COBOL DSNESP01 RUN ISFPUCU41 DSLIST FILEMGR * DSLIST

Online | 4:15 |

i. FILEMANAGER:

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

Process Options Help

VIEW GAMA03.TEST.DB2COBOL.REPORT

Top of 20
Record AT TOP
Format PAGE
WS-DEPT-ID FILLER WS-DEPT-NAME FILLER WS-EMP-ID FILLER WS-EMP-NAM
2 # 3 # 4 # 5 # 6 # 7
AN 1:3 AN 4:1 AN 5:1 5 AN 20:1 ZD 21:9 AN 30:1 AN 31:20
<-> - <-+---+----1----> - <-+---+----> - <-+---+----> - <-+---+----> -

***** * * * * * Top of data * * * * * *****

= LGTH FIN | FINANCE | 1 | Arjun Shar
= LGTH FIN | FINANCE | 2 | priya nair
= LGTH adm | admin | 3 | Amit Patel
= LGTH hr | human resource | 4 | sneha rao
= LGTH sal | sales | 5 | vikram sin
= LGTH dev | development | 6 | ananya das
= LGTH dev | development | 7 | rohan meht
= LGTH FIN | FINANCE | 8 | kavita iye
= LGTH adm | admin | 9 | Suresh Red
= LGTH hr | human resource | 10 | neha gupta
= LGTH sal | sales | 11 | Rahul verma
= LGTH dev | development | 12 | Pooja hegde
= LGTH dev | development | 13 | Deepak Jos
= LGTH fin | finance | 14 | shweta mis
= LGTH adm | admin | 15 | manoj kuma
= LGTH hr | human resource | 16 | ishani bhosle
= LGTH sal | sales | 17 | akash bansal
= LGTH dev | development | 18 | ritu phogat
= LGTH oth | others | 19 | siddharth

F1=Help F2=Zoom F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
- COBOL DSNESP01 RUN ISFPUCU41 DSLIST * FILEMGR DSLIST

Online | 4:15 |

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
Process Options Help
View GAMA03.TEST.DB2COBOL.REPORT
Command ==> [ ] Top of 20
Record AT TOP Scroll PAGE Format TABLE
WS-EMP-NAME FILLER WS-SAL FILLER WS-BONUS FILLER WS-YEAR
# 8 # 9 # 10 # 11 # 12 # 13 # 14
AN 31:20 AN 51:1 ZD 52:7 AN 59:1 ZD 60:6 AN 66:1 ZD 67:4
< - + - - - 1 - - - + - - - > - < - + - - > - < - + - > - < - - >
***** Top of data *****
=L G T H Arjun sharma | 9 2 0 0 0 | 6 0 0 0 | 2 0 2 6
=L G T H priya nair | 7 5 0 0 0 | 4 5 0 0 | 2 0 2 6
=L G T H Amit patel | 1 1 0 0 0 0 | 8 0 0 0 | 2 0 2 6
=L G T H sneha rao | 6 5 0 0 0 | 4 0 0 0 | 2 0 2 6
=L G T H vikram singh | 1 2 5 0 0 0 | 1 0 0 0 0 | 2 0 2 6
=L G T H ananya das | 8 8 0 0 0 | 5 5 0 0 | 2 0 2 6
=L G T H rohan mehta | 9 5 0 0 0 | 7 0 0 0 | 2 0 2 6
=L G T H kavita iyer | 7 2 0 0 0 | 4 2 0 0 | 2 0 2 6
=L G T H Suresh reddy | 1 0 5 0 0 0 | 9 0 0 0 | 2 0 2 6
=L G T H neha gupta | 6 8 0 0 0 | 4 1 0 0 | 2 0 2 6
=L G T H Rahul verma | 3 5 0 0 0 | 7 0 0 0 | 2 0 2 6
=L G T H Pooja hegda | 1 5 0 0 0 | 9 0 0 0 | 2 0 2 6
=L G T H Deepak Joshi | 1 1 0 0 0 | 8 0 0 0 | 2 0 2 6
=L G T H shweta mishra | 7 9 0 0 0 | 9 0 0 0 | 2 0 2 6
=L G T H manoj kumar | 4 4 0 0 0 | 5 5 0 0 | 2 0 2 6
=L G T H ishani bose | 9 0 0 0 0 | 6 5 0 0 | 2 0 2 6
=L G T H akash bansal | 4 9 0 0 0 | 1 5 0 0 | 2 0 2 6
=L G T H ritu phogat | 1 0 0 0 0 | 7 8 0 0 | 2 0 2 6
=L G T H siddharth roy | 8 2 0 0 0 | 4 9 0 0 | 2 0 2 6
F1=Help F2=Zoom F3=Exit F4=Retriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
-COBOL DSNESP01 RUN ISFPUCU41 DSLIST *FILEMGR DSLIST

```

```

TSO
File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF
Process Options Help
View GAMA03.TEST.DB2COBOL.REPORT
Command ==> [ ] Top of 20
Record AT TOP Scroll PAGE Format TABLE
FILLER WS-MONTH FILLER WS-TOT-DAYS FILLER WS-WRK-DAYS FILLER WS-LEA
# 15 # 16 # 17 # 18 # 19 # 20 # 21 # 22
AN 71:1 ZD 72:2 AN 74:1 ZD 75:2 AN 77:1 ZD 78:2 AN 80:1 D 81:2
< - > - < - > - < - > - < - > - < - > -
***** Top of data *****
=L G T H - 1 | 3 1 | 3 1 | 0
=L G T H - 1 | 3 1 | 3 1 | 0
=L G T H - 1 | 3 1 | 2 8 | 3
=L G T H - 1 | 3 1 | 3 0 | 1
=L G T H - 1 | 3 1 | 3 1 | 0
=L G T H - 1 | 3 1 | 2 0 | 1 1
=L G T H - 1 | 3 1 | 2 5 | 6
=L G T H - 1 | 3 1 | 3 1 | 0
=L G T H - 1 | 3 1 | 2 0 | 1 1
=L G T H - 1 | 3 1 | 2 5 | 6
=L G T H - 1 | 3 1 | 3 1 | 0
=L G T H - 1 | 3 1 | 2 9 | 2
=L G T H - 1 | 3 1 | 3 1 | 0
=L G T H - 1 | 3 1 | 2 7 | 4
=L G T H - 1 | 3 1 | 0 | 3 1
=L G T H - 1 | 3 1 | 1 5 | 1 6
=L G T H - 1 | 3 1 | 1 8 | 1 3
=L G T H - 1 | 3 1 | 2 0 | 1 1
=L G T H - 1 | 3 1 | 1 0 | 2 1
F1=Help F2=Zoom F3=Exit F4=Retriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
-COBOL DSNESP01 RUN ISFPUCU41 DSLIST *FILEMGR DSLIST

```

TSO

File Edit View Tools Help

Clear Erase PA1 PA2 PA3 EraseF

Process Options Help

View GAMA03.TEST.DB2COBOL.REPORT

Command ==> Record AT TOP Format TABLE

WS - LEAVES FILLER WS - TOTAL - PAYOUT

22 # 23 # 24
ZD 81:2 AN 83:1 ZE 84:12
<-> - < - + - - 1 - >

***** Top of data *****

= LGTH	0		000097999.99
= LGTH	0		000079499.99
= LGTH	3		000107354.83
= LGTH	1		000066903.22
= LGTH	0		000134999.99
= LGTH	11		000062274.19
= LGTH	6		000083612.90
= LGTH	0		000076199.99
= LGTH	11		000076741.93
= LGTH	6		000058938.70
= LGTH	0		000041999.99
= LGTH	2		000023032.25
= LGTH	0		000011799.99
= LGTH	4		000077806.45
= LGTH	31		000005500.00
= LGTH	16		000050048.38
= LGTH	13		000029951.61
= LGTH	11		000007231.61
= LGTH	21		000031351.61

F1=Help F2=Zoom F3=Exit F4=Retrieve F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

- COBOL DSNESP01 RUN ISFP CU41 DSLIST * FILEMGR DSLIST

Thank You.

Page 16 of 16