



# **WILLPOWER**

## **Technologies**

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### **Mainframe Concepts:-**

- What is Mainframe
- Difference between Open source Applications and Mainframe Application
- Where do we use Mainframe Applications
- Operating System information
- Resource Access Control Facility concepts in terms of Real time
- Login to the Mainframes and the explanation of the screens
- What is Physical Sequential dataset and Partioned dataset
- Batch process
- Online process

### **JCL – JOB CONTROL LANGUAGE**

### **JOB – EXEC – DD STATEMENTS**

- What is a JCL and where we use this
- Job Statements syntax
- Positional and Keyword Parameters
- Below parameters will be explained with Real time examples
- CLASS,MSGCLASS,REGION, ADDRSPC parameter
- MSGLEVEL,NOTIFY, TYPRUN, PASSWORD parameter
- USER,COND, RESTART, TIME parameter
- Use of the step names in the JCL
- EXEC statement
- How to execute a program using JCL
- How to execute a procedure using JCL
- Common parameters in both job and step
- COND parameter explanation to skip in execution of the steps

- COND parameter with EVEN, ONLY options
- TIME parameter abend codes and the meaning of NOLIMIT,1440,MAX
- PARAM parameter and it's limitation to pass the data.
- DD statement
- DISP parameter along with STATUS, NORMAL,ABNORMAL execution
- Of the job.
- DCB – Data Control Block, LRECL – Logical record length, BLSIZE – Block size and SPACE parameters used in allocating a dataset through JCL

### **SPECIAL Statements**

- What is a SYSIN
- SYSOUT
- SYSUT1,SYSUT2
- SYSTSIN
- What are the ways to pass the data from a JCL to COLBOL program
- Temporary dataset and a Dummy file

### **UTILITIES**

- What are the utilities available from IBM and where we use it.
- IEFBR14
- IEBCOPY
- IEBGENER
- IEBCOMPR
- IEHPROGM
- SORT
- And other Utilities

### **PROCEDURES**

- What is a procedure and how many types of procedures are there
- What is Instream Proc
- What is a Cataloged Proc
- What is a Symbolic Parameter and how to use it.
- What is a Override Parameter and how to use it.
- How to pass the data to a PROC
- How to code the RESTART parameter if we are using a PROC

## **GENERATION DATA GROUP**

- What is a GDG
- Where we use GDG's in real time project
- What is a base GDG and the parameters to create a GDG
- How to create a new version
- Significance of +1,+2,-1,0 etc

## **OTHER TOPICS IN JCL**

- How to allocate a dataset
- How to copy a dataset
- How to delete a dataset
- How to compress a dataset
- How to compare the datasets
- How to search a string in the PS or in the PDS
- How to check if a dataset is empty or not
- How to submit a JCL
- How to check the syntax errors without submitting the JCL
- How to download and upload the files in Mainframes
- What is Internal Reader
- Real time Interview Questions from JCL

## **VSAM – VIRTUAL STORAGE ACCESS METHOD**

- Basic Concepts in VSAM
- What is the difference between a PS file and VSAM files
- What are the different types of VSAM files
- What is a Index component and Data component
- What is a Control Interval, Control Area
- KSDS
- RRDS
- ESDS
- LDS
- Access methods to handle the VSAM files

- Alternate Index
- What is a Path
- How to load the VSAM files using the REPRO command
- SKIP,COUNT options
- How to print the VSAM dataset in CHAR,HEXA mode
- Build index options
- How to define the VSAM files in Batch
- How to define the VSAM files in Online

### **COBOL – COMMON BUSINESS ORIENTED LANGUAGE**

- Divisions in COBOL
- Cobol coding sheet
- Level numbers and special level numbers
- Data type declarations
- Different MOVE statements and how it works for a numeric and alphanumeric moves
- Arithmetic verbs in COBOL
- Redefine and renames clause
- If statement, Evaluate Statement
- Different PERFORM statements
- EXIT, STOP RUN, EXIT PROGRAM
- How to call sub programs
- What is a Static call and Dynamic call
- How to Define the TABLE handling
- Difference between SEARCH and SEARCH all
- Internal sort in COBOL
- Linkage section changes
- What are the changes in the COBOL pgm to receive the data from JCL
- How to handle the VSAM files in a COBOL pgm.

### **Other Topics**

- Coding standards
- How to compile and execute the COBOL programs.
- How to fix the errors
- What is a SOC4, SOC7,SOC13 error codes

- How to setup the JCL to execute a cobol pgm

## **DB2**

1. Introduction to DB2 as Universal DB
2. Data Definition, Data Declaration, Data Manipulation Statements
3. All the options used in the SELECT clause
4. Db2 functions
5. How to compile the COBOL – DB2 program
6. Process of DBRM, Bind Package, Bind Plan
7. How to solve the BIND issues.
8. Difference between WHERE, HAVING and GROUP BY clauses
9. Writing the sub-queries
10. Use of INCLUDE and COPY options
11. Cursor declaration and its use in the application program
12. Joins – Inner join, Outer join, Left outer join, Right outer join
13. Union and Union all
14. Handling SQL Codes
15. COMMIT and ROLLBACK options in DB2
16. Use of DCLGEN
17. What is SPUFI and QMF
18. Performance tuning options
19. Db2 system and Sub-system meaning
20. Db2 threads

## **CICS**

1. Introduction to CICS
2. What is a transaction and how to initiate the transaction
3. How to compile a CICS pgm and how to execute it
4. What is Pseudo conversation
5. What are the CICS transaction tables
6. What are the activates you do before writing a CICS program
7. How to design the MAPs and what are the macros available to design it
8. How to place the cursor in a specified position
9. What is MDT –Modified Data Tag
10. Using the VSAM files in CICS environment
11. Difference between XCTL and LINK
12. What is SYNCPOINT
13. Difference between TSQ and TDQ

14. How to start the CICS region and stop the region
15. COLD start and WARM start
16. How to see the DUMP in CICS in case of abends
17. How to debug the program in CICS region.

### **TOOLS:**

- **File-Aid**
- **Endeavor**
- **Xpeditior**
- **Change Management**

### **CASE STUDY & TIPS**

- **Case study using COBOL & DB2**
- **Case study using COBOL, DB2 & CICS**
- **Case study using COBOL, CICS & VSAM**
- **Interview based question and tips**

#### ❖ **Training and project explanation**

- **Real time issues**
- **Interview Preparation**
- **Conducting mock interviews**
- **Resume Preparation**

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