# Response:

## 1. High-Level Code Flow

The system processes an EDI 850 file, performs enrichment using data from a database, and generates an output file. The process involves reading input records, enriching them with additional data, and writing them to an output file. This is managed through a series of steps defined in a JCL job that executes a COBOL program and a subroutine for enrichment.

## 2. Code Flow Diagram

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JCL Job (ORDERJCL)

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+-- PROC (EDI850PROC)

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+-- Step 1: Access Translated EDI 850 File (IEBGENER)

|

+-- Step 2: Execute Main COBOL Program (MAINCOBOL)

|

+-- Read Input File

+-- Process Each Record

|

+-- Enrich Record (SQL Query)

+-- Write to Output File

```

## 3. Summarize The Jcl Job, Cobol Main Program, Proc, Control Card, Subroutine

## Summary Of The Jcl Job (Orderjcl)

1. **Job Name and Description**:

* Name: EDI850PR
* Description: Processes EDI 850 files and generates enriched output.

2. **Job Steps**:

* \*\*STEP1\*\*: Executes the PROC named EDI850PROC.
* \*\*STEP2\*\*: Sends a notification upon completion.

3. **Step Parameters**:

* \*\*STEP1\*\*: Uses PROC EDI850PROC.
* \*\*STEP2\*\*: Executes IKJEFT01 to send a notification message.

4. **Data sets**:

* \*\*SYSPRINT\*\*, \*\*SYSUDUMP\*\*: Used for job output and dumps.
* \*\*SYSIN\*\*: Contains the notification message.

5. **Execution Control Statements**:

* None specified.

## Summary Of The Cobol Program (Orderpgm)

1. **Program Name and Purpose**:

* Name: MAINCOBOL
* Purpose: Reads input records, enriches them with additional data from a database, and writes the enriched records to an output file.

2. **Program Structure**:

* \*\*Divisions\*\*: Identification, Environment, Data, Procedure.
* \*\*Sections and Paragraphs\*\*: OPEN-FILES, READ-INPUT, PROCESS-RECORD, ENRICH-RECORD.
* \*\*Flow\*\*: Opens files, reads input, processes and enriches records, writes output, closes files.

3. **Input and Output**:

* \*\*Input\*\*: INPUT-FILE (line sequential, 80 characters per record).
* \*\*Output\*\*: OUTPUT-FILE (line sequential, 80 characters per record).

4. **Logic and Processing**:

* Reads each record from the input file.
* Enriches each record using data from a database.
* Writes the enriched record to the output file.

5. **Data Description**:

* \*\*INPUT-RECORD\*\*: 80 characters.
* \*\*OUTPUT-RECORD\*\*: 80 characters.
* \*\*WS-DB2-FIELDS\*\*: Contains fields for database enrichment.

6. **Subroutine Calls**:

* Calls the ENRICH-RECORD subroutine for database enrichment.

7. **Error Handling**:

* Checks SQLCODE after database query and handles errors by setting specific fields in the output record.

## Summary Of The Subroutine (Validatesub)

1. **Subroutine Name and Purpose**:

* Name: ENRICHMENT
* Purpose: Enriches input records with additional data from a database.

2. **Input Parameters**:

* \*\*WS-INPUT-RECORD\*\*: Input record to be enriched.
* \*\*WS-OUTPUT-RECORD\*\*: Output record to store enriched data.

3. **Output Parameters**:

* \*\*WS-OUTPUT-RECORD\*\*: Updated with enriched data or error information.

4. **Functionality Overview**:

* Queries the database using the key from the input record.
* Updates the output record with the retrieved data or error information.

5. **Subroutine Dependencies**:

* Accesses the ENRICHMENT\_TABLE in the database.

6. **Error Handling**:

* Checks SQLCODE after database query and handles errors by setting specific fields in the output record.

## Summary Of The Control Card

1. **Control Card Content**:

* Contains validation and enrichment rules.

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00001 RULE: VALIDATION RULE DESCRIPTION

00002 RULE: ENRICHMENT RULE DESCRIPTION

```

## Summary Of The Proc (Edi850Proc)

1. **PROC Name and Description**:

* Name: EDI850PROC
* Description: Manages the steps to process EDI 850 files and execute the main COBOL program.

2. **Steps**:

* \*\*ACCESSTRANSLATED\*\*: Uses IEBGENER to access the translated EDI 850 file.
* \*\*EXECMAINPGM\*\*: Executes the MAINCOBOL program.

3. **Step Parameters**:

* \*\*ACCESSTRANSLATED\*\*: Defines datasets for input and output.
* \*\*EXECMAINPGM\*\*: Specifies the program to execute and its input/output datasets.

4. **Data sets**:

* \*\*SYSPRINT\*\*, \*\*SYSIN\*\*, \*\*SYSUT1\*\*, \*\*SYSUT2\*\*: Used for job output and file handling.
* \*\*INPUTFILE\*\*, \*\*OUTPUTFILE\*\*: Input and output files for the COBOL program.
* \*\*CONTROL1\*\*: Control card dataset.

5. **Execution Control Statements**:

* None specified.