**Project Summary/Task Description:**

**Project Name:** Automated State Payment Summary Report Generation

**Objective:** Automate the process of generating a daily State Payment Summary Report based on the data provided in CSV files. This report will include information about state payments, specifically the total number less than the national payment and the total number same as the national payment.

**Project Components:**

**1. Data Source:** Daily CSV files with the naming convention "StatePaymentNumbers\_YYYYMMDD.csv" will be placed in the source folder “C:\Users\Akshaya\Documents\PracticeTasks\Source" at 8:00 AM.

**2. Data Transformation:** We will use SQL Server Integration Services (SSIS) to read and transform the data from the CSV files into a format suitable for the report.

**3. Report Generation:** A daily report will be generated with the following format:

Report Header:

VendorName| TransmissionID | Amount

**4. Report Delivery:** The report will be saved with the filename "StatePaymentSummaryView\_YYYYMMDD.txt" in the target folder " C:\Users\Akshaya\Documents\PracticeTasks\Target"

**5. Schedule:** The entire process will be scheduled to run daily at 9:00 AM to ensure the report is up-to-date.

**Step-by-Step Documentation:**

***Step 1: Prepare Your Environment***

- Ensure you have SQL Server Integration Services (SSIS) installed and configured on your system.

***Step 2: Create an SSIS Project***

1. Open Visual Studio.

2. Create a new Project.

3. Name the project "SummaryReport."

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***Step 3: Configure Data Flow Task***

1. In the Data Flow Task, add a Flat File Source to read the daily CSV file.

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Double click on it to open the editor, click on “New”

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Browse the file, and click on “Open” after you select the CSV file

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Change connection manager name to file name and go to columns from the left menu bar, you should be able to see the data and then click on “OK”, “OK”.

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2. Use a Data Transformation (Aggregate), drag and drop it onto the canvas.

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Double click on Aggregate to open editor and select the columns as per the task.

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Click on “OK” after selecting the columns.

3. Add a “Flat File Destination” to write the transformed data to a temporary txt file.

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Double click on flat file destination, then click on new

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Click on “OK”

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Browse for the file name, mention the .txt file named in the task.

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Change the connection manager name.

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Go to columns and choose Vertical Bar, as per our project requirements.

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And then Click on “OK”.

***Step 4: Schedule the Package***

1. Right-click on the project in the Solution Explorer, Summary Report.

2. Select "Deploy" to deploy the SSIS package.

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Browse on path, create a new folder and name it then click on OK

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Click on NEXT

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Click on DEPLOY

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Click on “CLOSE” after it successfully runs

3. OPEN SSMS

Right click on sql server agent, click on new then yes to enable it

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Use SQL Server Agent to create a job and schedule it to run the package daily at 9:00 AM.

Double click on Jobs to select New job, and name the job

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In steps on the left menu bar, click on new step and do the following

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Also select the package .dtsx file

Then click on “OK”.

Now go to schedules and click on “New”

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Click on “OK”

***Step 5: Testing and Monitoring***

1. Test the SSIS package by manually executing it.

2. Monitor the job execution and verify the generated reports in the target folder.

With this SSIS project, you will have an automated solution to generate daily Summary Reports as per the given format and schedule. This project will save you time and ensure the reports are always up-to-date.