

Financial Data Reconciliation Assignment

You are provided with two datasets: 1. ERP Data (Excel file) 2. Bank Statement (PDF file) Your task is to reconcile the data between the two sources and identify discrepancies. This exercise is designed to assess your problem-solving, data-handling, and analytical skills. ■■■ IMPORTANT: You are required to complete this task **using Gen AI Agents or Agentic AI workflows** only. - You must NOT write manual data engineering scripts, SQL queries, or standalone Python/Excel macros. - Instead, design and use AI agents (or frameworks such as LangChain, AutoGen, CrewAI, or equivalent) that can perform the reconciliation steps, handle reasoning, and generate outputs automatically. - The entire workflow should demonstrate the use of **autonomous or semi-autonomous AI agents** to handle data analysis and reconciliation.

Tasks

- Reconcile transactions between the ERP data and Bank Statement.
- Identify and classify discrepancies (e.g., missing in ERP, missing in Bank, duplicates, amount mismatches, rounding differences).
- Use Gen AI or Agentic AI frameworks to design **AI agents** that automate reconciliation tasks.
- Ensure agents can explain their reasoning and decisions as part of the workflow.
- Prepare a reconciliation summary file with your results (Excel or CSV).
- Write a short report (1–2 pages) including: overall reconciliation rate, summary of issues found, recommendations, and explanation of your AI agent design.

Submission Requirements

- Reconciled dataset (Excel/CSV). - Short written report (PDF/Word). - Clear documentation of your AI agent workflow (architecture, tools used, reasoning steps). - Evidence that reconciliation was performed through AI agents (e.g., logs, agent outputs, screenshots, or workflow graphs).

Evaluation Criteria

- Accuracy of reconciliation and issue identification.
- Effective use of AI Agents or Agentic AI workflows.
- Clarity and structure of the final report.
- Creativity and robustness in leveraging AI agents for automation.

Please ensure your solution demonstrates that AI agents (not traditional scripts) are the primary mechanism driving the reconciliation process. Submissions using manual scripting approaches will not be considered valid.