

### Phase 3: Development Part 1 Notebook

#### Project Overview:

Briefly describe the project's purpose and the objectives of this specific phase.

#### Project Plan:

Outline the tasks and milestones for this phase, including the development of the data warehouse structure and the data integration strategy.

#### Data Warehouse Structure Design:

Document the schema and structure of the data warehouse tables. Include diagrams, if applicable.

Describe the choice of data modeling techniques (e.g., star schema, snowflake schema) based on business needs.

Discuss how scalability for future data growth has been considered.

#### Data Integration Strategy:

List the identified data sources (e.g., CSV files, databases) that need to be integrated into the data warehouse.

Present the mapping of source data to the data warehouse schema.

Describe the strategies for efficient data extraction, including any tools or methods chosen.

#### Challenges and Solutions:

Record any challenges or roadblocks encountered during this phase and the solutions or workarounds applied.

#### Team Collaboration:

Detail how the project team, including data architects, database administrators, and data engineers, collaborated during this phase.

Timeline and Milestones:

Include the estimated timeline for this phase and mark the completion of milestones.

Project Deliverables:

List the documents or outputs generated during this phase, such as schema documentation and data integration strategies.

Next Steps (Part 2):

Provide an overview of the tasks and objectives for the next phase of the project, which may include ETL process implementation, data exploration tools, and data governance practices.