College code -7125
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Data warehousing with IBM cloud Db2 warehouse
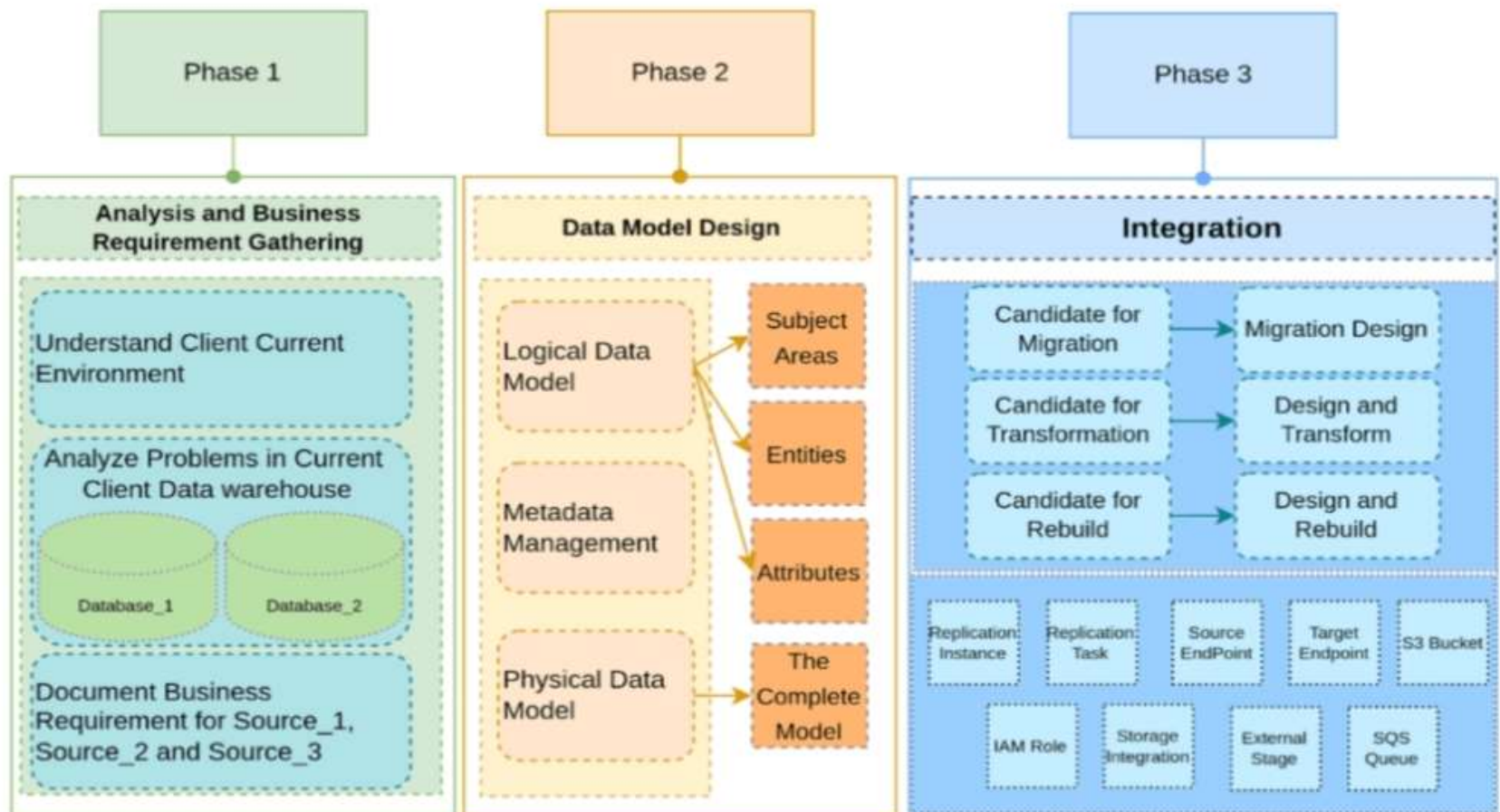
Objectives:

The objective of the project are outlined below:

1. Data warehousing encompasses a broad range of Activities.

2. Specifically,it includes data extraction, transformation and loading.

3. Support decision making and problem solving.

Design thinking process:

1. Engineer requirements
2. discover data needs
3. Conceptualize data warehouse
4. Plan the project
5. Select data warehouse technologies
6. Model data and design ETL processes

Phases Involved in Data Warehousing

Phase 4

Phase 5

Phase 6

Design and Development

Source to stage

Retrospective Data Migration (Database_1 & Database_2)

Prospective Data Migration (Client FTP Data from Source_1, Source_2, Source_3, Source_4)

Source Database Preparation

Source Client FTP Connection

Replication Output

Data Replication to Snowflake

ETL Infrastructure

Authentication and Authorization

Stage to Snowflake

Snowflake and AWS Infrastructure

Migration Pipeline

Migration/ Deployment

Migrate

Rapid

Reinstall

Re-Platform

Deploy

Managed Private Cloud

Shared Cloud

Validation of Migration

Testing and going live

Phased Testing
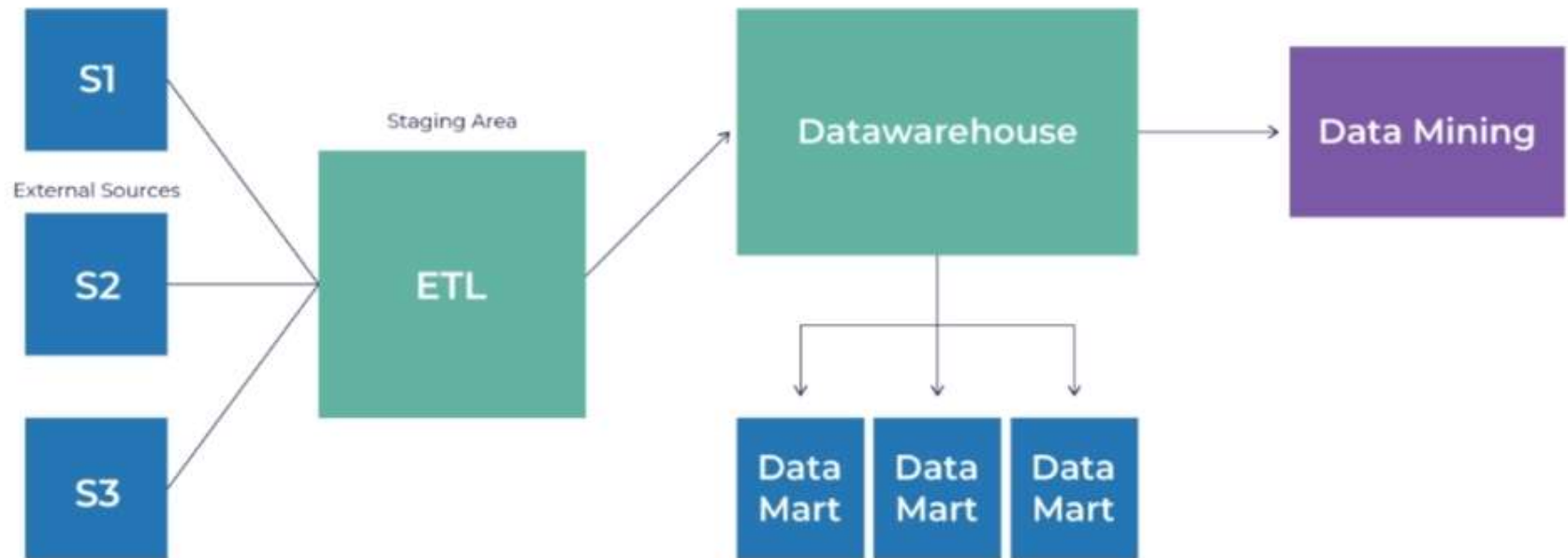
Full Volume Testing

Pre Production Testing

Audit and maintenance

Project Result Validation

Regular Audit

Ad-hoc Audit

Data warehouse structure :

ETL processes:

Extract data from homogeneous or heterogeneous data sources

Transform the data for storing it in proper format or structure for querying and analysis purpose

Load it into the final target