**BIRD – Data Migration POC**

Day 1: Assessment and Pre-Planning

* Review the current on-premise SQL Server database schema, tables, and stored procedures.
* Identify dependencies and relationships between database objects.
* Assess any custom scripts or jobs that might need modification for Azure compatibility.
* Install and configure Azure Data Factory (ADF) on the destination Azure SQL server.
* Set up a test environment on Azure to simulate the migration.

Day 2: Data Migration Setup

* Identify and prioritize tables for migration based on dependencies.
* Set up Azure SQL Database with required configurations (e.g., collation, compatibility level).
* Develop and test Azure Data Factory pipelines for initial data extraction from the on-premise database to Azure SQL Database.

Day 3: Schema and Object Migration

* Script out the database schema and objects from the on-premise SQL Server.
* Modify scripts to address any Azure SQL compatibility issues.
* Execute schema migration scripts on the Azure SQL Database.
* Validate that all tables, views, and stored procedures have been created successfully.

Day 4: Data Transformation Development

* Identify and plan data transformations needed during migration.
* Develop and test transformation logic using Azure Data Factory.
* Implement and test additional data cleansing and transformation logic.

Day 5: Incremental/Transactional Data Migration

* Configure Azure Data Factory pipelines for incremental data extraction.
* Creation of break points and logs to be captured.

Day 6: Error Handling setup

* Designing of failure and error handling during migration or transformation.
* Testing of error handling and configuring the monitoring process.

Day 8: Validation and Testing

* Conduct comprehensive data validation checks to ensure data integrity.
* Validate that all transformations are applied correctly.
* Perform performance testing and optimization.
* Identify and address any issues or performance bottlenecks.

Day 9-10: Finalization and Deployment

* Document the migration process and any troubleshooting steps.
* Obtain final approval and sign-off.
* Execute the final migration.
* Monitor for any issues during and after the migration.

Day 11: Post-Migration

* Conduct post-migration testing and validation.
* Update connection strings and configurations in applications pointing to the new Azure SQL Database.
* Monitor the Azure SQL Database for performance and optimization opportunities.