**Question**: What will be the strategy to migrate such a database to PostGRE considering the size and

transactional volume? Mention any tooling (opensource or proprietary) that can ease out this

process

**Answer**: There are multiple tools available for migration to PostgreSQL like:

* Sqlserver2pgsql
* AWS SCT Tool
* AWS DMS Tool
* Ora2pg

**Question**: What can be the issues being faced and possible mitigation plan?

**Answers**: The issues faced and possible are:

* Update all non-supported data types (Example: DATETIME to TIMESTAMP)
* Remove non-supported optional keywords (Example: WITH RECOMPILE)
* Remove square brackets (Use double quotes instead)
* Case sensitivity
* Replace T-SQL batch terminator "GO" with PostgreSQL ";"
* Runtime changes to Scripts
* Nested Stored Procedures
* SQL Server Jobs (We can use CRON Jobs but it will run on minutes not in seconds)
* Special features like WAIT FOR DELAY needs to be replace with pg\_sleep()
* SSIS compatibility
* SQL Server Stored Procedure returns dynamic result sets based on input like 1 or 2 or any number of columns. (Need to use cursor in Procedure in PostgreSQL)

**Question**: What will be the roadmap for the transition and what factors will determine the timelines of such a migration?

**Answer**: We need to start with the finding database complexity by preparing document of source database object details summary.

* Generate the assessment report using AWS SCT tool to check out the Action Item and according plan the roadmap for the transition.
* Based out the complexity level of database object we will determine the timeline for the migration.
* For dual compatibility we can also use the AWS Babelfish, using Babelfish Compass tool we can also determine the complexity level of the database object and plan for the timelines according. By using Babelfish we can skip the manual conversion code by almost 60-70%.
* We can consider the non-dependent database object first in roadmap for quick completion. Further that we need to consider the parent database object which is referred from other(child object) for example parent table/view/function being referenced from child view/function etc.
* Based on the database object complexity we can assign set of objects to database developer for the manual conversion.
* Keep maintaining the track of changes made during the process by creating excel sheet.