AWS Batch Universal Job Scheduler

1. Job schedule definition (json document) is loaded into master table (one-time)
2. User can initiate a job schedule by requesting job via REST API (passing job id)
3. Optionally, a job schedule can be initiated by a cloud watch event at a specific time
4. State machine gets schedule, submits jobs to AWS Batch and monitors job
5. AWS Batch scheduling engine handles job dependencies and orchestration

6. Big data ETL jobs are executed in the data lake by AWS Glue, lambda, etc.
7. Individual EC2-based jobs can be executed via SSM agent
8. AWS batch container jobs can perform long-running transformations and other work
9. Job failure feedback is delivered via SNS
10. Job result (success/failure) is updated into transactions database for reporting