**PROJECT PROPOSAL**

**Project Name:** The Observations of Historical Interest Rate and Consumer Inflation Rate datasets

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**Objective:** The aim of our project is to use ETL concepts by utilising tools such as Jupyter and PostgreSQL to find the relationship between Australia Reserve Bank Historical Interest Rate and Australia Consumer Inflation Rate from 1960s.

We clean and transform the datasets so that it is ready for the data analysts for future analysis use.

**Data Source:** https://www.rba.gov.au/statistics/tables/from Reserve Bank of Australia.

**Phases of work:**

1. Import data

* Data source 1: inflation dataset
* Data source 2: interest dataset

1. Data cleaning, filtering

* drop null data and skip some rows
* change column name

1. Transform the data

* convert ‘date’ columns to datetime
* rename data columns
* combine monthly date into quarterly date using three months’ average value

1. Load data into SQL database

Both datasets were transformed into a relational database.

1. Join two tables together for summary.