Use R to Control Google BigQuery

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2017-10-17

Get Authentication

```
install.packages("bigQueryR")
library(bigQueryR)
bqr_auth()
```

Pulling Data from BigQuery to R

- Data sent to R should be less than 10000 rows
- 2 Check the data type limitation for big integers

Save to Another Table

check the result of your query

```
bqr_get_job("ntufbdata", job_1$jobReference$jobId)
```

Using For Loop

```
ideology_vec = c(-3, -2, -1, 0, 1, 2)
for (i in 1:5) {
 job = bqr_query_asynch(projectId = "ntufbdata",
                         datasetId = "bigQueryR try",
                         query = paste0("SELECT PC1_std,
                                                page_id
                                           FROM politician_PC1_std_copy
                                           WHERE PC1_std BETWEEN",
                                                 ideology_vec[i-1],
                                                 "AND",
                                                 ideology vec[i]).
                          destinationTableId = paste0("politician_group", i-1),
                          writeDisposition = "WRITE TRUNCATE")
  bqr_wait_for_job(job)
```

Export to Google Cloud Storage

- Must use a Google Cloud Storage path
- This overwrites table of same name automaticlly