

Feb 3

iClicker

iClicker1 — OLTP :

- OLTP system is able to cope with real-time simultaneous transactions that the database server is processing in large volumes.
- OLTP system uses large amounts of operational data to run complex queries on and provide insights for tactical and strategic decision-making.

iClicker2 — SQL syntax:

- WHERE <condition>
- BETWEEN x AND y —> [x,y] inclusive

iClicker3 — SQL syntax:

- count(*) —> count the number of rows that meet the condition(s)

iClicker4 — SQL syntax:

- <column_name> is NULL —> means **NO** value

iClicker5 — SQL syntax:

- count(*) —> does not count the NULL value

SQL Queries (Basic Form)

```
SELECT <list of fields>  
FROM <single table>  
WHERE <boolean condition>  
ORDER BY <list of fields to sort on> [ DESC ]
```

Schema: the structure of a table

Jupyter Notebook

Creating dataset and load files:

```
<variable_name> = <dataset_name>  
!bq --location=US mk --dataset {<variable_name>}
```

```
!bq --location=US load --autodetect --skip_leading_rows=1 \  
--source_format=CSV {<variable_name>}.<table_name> \  
'gs://<bucket_name>/<file_name>'
```

```
%%bigquery  
<SQL>
```

Without using `--autodetect` but loading json file:

```
!bq --location=US load --skip_leading_rows=1 \  
--source_format=CSV {<variable_name>}.<table_name> \  
'gs://<bucket_name>/<file_name>'\  
<path of Json file in your repo>
```

Git

```
$ git config --global user.name "xxxxx"
```

```
$ git config --global user.email "xxxxx"
```

**You can use [`$git config --list`] to check your settings at any time.

```
$ git remote add origin [address - clone with https ]
```

```
$ git push -u origin master
```

Just load the file even if the file is not perfect!

For the **bq load** command,

Adding optional parameters: `--allow_jagged_rows`
`--allow_quoted_newlines`