# Design



Benefit:

=> 1. Fast. Cases Data Source is actually a cache. If you made an application or Dashboard to present data from the database, no need to wait a long time to execute the Query, just fetch data from the data source.

=> 2. Convenient. With a big SQL in plx query, I have prepared very enriched Data for lots of scenarios.

=> 3. Flexible. When you write a script, you can import and call the API directly. Or if you want to use Plx Dashboard or Looker, you can use the Data Source(sheets) directly.

=> 4. Data for lots of scenarios: KPI data(TRT/IRT), consults/bugs information, case details, P2 SOP information and lots of other features.

# Resources

=> 1. Plx script: [PLX SQL](https://paste.googleplex.com/5254442379378688)

=> 2. Data Source: [Cases Provider](https://docs.google.com/spreadsheets/d/1-vwsOWY0b-fswAiNqaG_kA3gJYCR0T8p5BvbccbCDcQ/edit?usp=sharing)

=> 3. APIs: [Scripts](https://script.google.com/corp/u/0/home/projects/1T4Ou7ZghBdTmBKpReuylAhsDWI0DkMSCX1q-fDny7KiXZSAsBt0x1NeW) -> APIs.gs

# User guide

=> 1. [Case Provider Data Source](https://docs.google.com/spreadsheets/d/1-vwsOWY0b-fswAiNqaG_kA3gJYCR0T8p5BvbccbCDcQ/edit?usp=sharing)

→Do not pull data from the “Cases” sheet, this sheet will sync CSData dataset every 20 mins, when it syncs, it will be empty.

→Please pull data from “Data, Infra, Networking, Platform” sheets, these sheets will always cache the data.

=> 2. APIs:

Library ID: 1T4Ou7ZghBdTmBKpReuylAhsDWI0DkMSCX1q-fDny7KiXZSAsBt0x1NeW

/\*\*

\* get all cases raw data filter by site and shard

\* return [][]

\*/

getAllCasesRaw(sites, shard)

/\*\*

\* get all opened cases raw data filter by site and shard

\* return [][]

\*/

getOpenedCasesRawByShard(sites, shard)

/\*\*

\* get all opened cases raw data filter by site and shard, duplicate by getOpenedCasesRawByShard(sites, shard)

\* return [][]

\*/

getAllCasesRawByShard(sites, shard)

/\*\*

\* get all opened cases json objects fiter by site and shard

\* return [{jsonObj}...]

\*/

getCases(site, shard)

/\*\*

\* get all cases json object fiter by site and shard

\* return [{jsonObj}, {jsonObj}, {jsonObj}...]

\*/

getAllCases(site, shard)

/\*\*

\* get all opened cases json object fiter by site and shard

\* return [{jsonObj}...]

\*/

getAllOPenedCases(site, shard)

/\*\*

\* get all cases json object fiter by site, shard and min age <= case age <= max age

\* return [{jsonObj}...]

\*/

getCasesByAge(site, shard, minAge, maxAge)

/\*\*

\* get schema

\* return [string...]

\*/

getSchema()

/\*\*

\* get all ldap filter by sites and shard

\* return Set

\*/

getLdapSet(sites, shard)

/\*\*

\* get all cases filter by sites, shard and ldap

\* return [{jsonObj}...]

\*/

getCasesByLdap(sites, shard, ldap)

/\*\*

\* get all cases json objects fiter by site, shard and min trt <= trt hours <= max trt

\* return [{jsonObj}...]

\*/

getCasesByTrtHours(sites, shard, minTrt, maxTrt=0)

/\*\*

\* get opened cases json objects with open bugs fiter by site, shard

\* return [{jsonObj}...]

\*/

getOpenCasesWithOpenedBugs(site, shard)

=> 3. Data Structure:

Please refer to the heads of [Cases Provider](https://docs.google.com/spreadsheets/d/1-vwsOWY0b-fswAiNqaG_kA3gJYCR0T8p5BvbccbCDcQ/edit?usp=sharing). There are more than 74 cols including very enriched information including TRT/IRT/BUGS/CONSULTS and P1 SOP information.