

科目名	年度	レポート番号	クラス	学籍番号	名前
API 実習	2021	2	A	20120080	工藤聖斗

レポートは最大 5 ページ以内とします。ページ数や文字数よりも、わかりやすく書けているかどうか、点数アップの
分かれ目です。

Google スプレッドシートをもとに API を作成し、下記を行ってください。

- Google スプレッドシートをもとに作成した API について、以下を報告すること。

(ア) 作成した独自データの概要(2 行くらいで説明せよ)

RESAS より、山形県 20 市町村の市町村名、総人口、老年人口割合、リンクを用いてデータを作成した。(2020 年時点)

RESAS <https://resas.go.jp/#/15/15100>

(イ) 作成した Google スプレッドシートの URL

The spreadsheet URL:

<https://docs.google.com/spreadsheets/d/1p4E693pCDsvWn7-8sA89YUm4eEyOxkEksOY7OCnNRX8/edit#gid=0>

(ウ) API エンドポイントの URL

The API endpoint: <https://sheetdb.io/api/v1/pdlo3fpy64n1g>

- 作成した API について、POSTMAN などによる GET におけるパラメータおよび検索の確認。

(ア) パラメータの使用

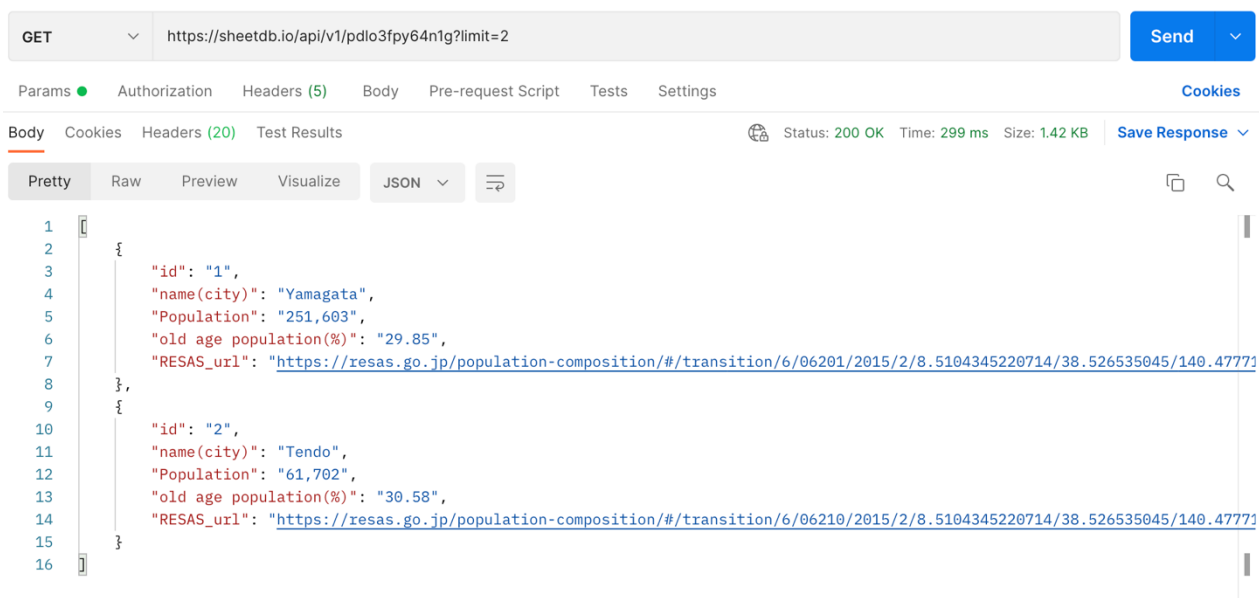
- ① sort_order(並び替え, 降順)

```

1  [
2    {
3      "id": "20",
4      "name(city)": "Kaneyama",
5      "Population": "5,293",
6      "old age population(%)": "36.05",
7      "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06361/2015/2/7.087462841250339/38.526535045/140.477",
8    },
9    {
10     "id": "19",
11     "name(city)": "Oishida",
12     "Population": "6,545",
13     "old age population(%)": "39.60",
14     "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06341/2015/2/7.087462841250339/38.526535045/140.477",
15   },
16   {
17     "id": "18",
18     "name(city)": "Oe",
19     "Population": "7,757",
20     "old age population(%)": "39.60",
21     "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06324/2015/2/7.087462841250339/38.526535045/140.477",
22   }
23 ]

```

② limit/offset (ページネーション)



GET <https://sheetdb.io/api/v1/pdlo3fpy64n1g?limit=2> Send

Params Authorization Headers (5) Body Pre-request Script Tests Settings Cookies

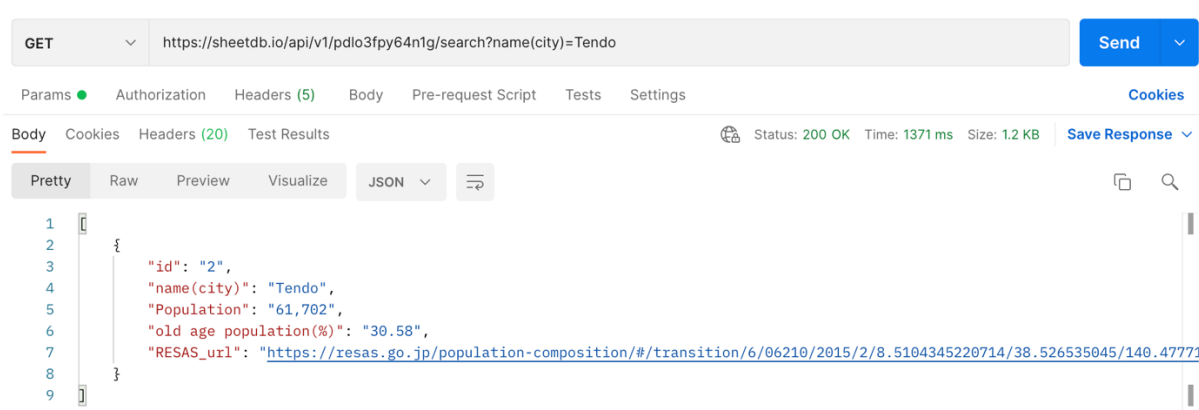
Body Cookies Headers (20) Test Results Status: 200 OK Time: 299 ms Size: 1.42 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": "1",
4     "name(city)": "Yamagata",
5     "Population": "251,603",
6     "old age population(%)": "29.85",
7     "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06201/2015/2/8.5104345220714/38.526535045/140.47771"
8   },
9   {
10    "id": "2",
11    "name(city)": "Tendo",
12    "Population": "61,702",
13    "old age population(%)": "30.58",
14    "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06210/2015/2/8.5104345220714/38.526535045/140.47771"
15  }
16 }
```

③ search (検索)

Tendo : 地元であるため検索



GET [https://sheetdb.io/api/v1/pdlo3fpy64n1g/search?name\(city\)=Tendo](https://sheetdb.io/api/v1/pdlo3fpy64n1g/search?name(city)=Tendo) Send

Params Authorization Headers (5) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (20) Test Results Status: 200 OK Time: 1371 ms Size: 1.2 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": "2",
4     "name(city)": "Tendo",
5     "Population": "61,702",
6     "old age population(%)": "30.58",
7     "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06210/2015/2/8.5104345220714/38.526535045/140.47771"
8   }
9 }
```

3. 作成した API について、POSTMAN などによる POST および DELETE の確認。

(ア) POST の実行結果

実行結果

The screenshot shows a Postman interface for a POST request. The URL is `https://sheetdb.io/api/v1/pdlo3fpy64n1g?id=21&name(city)=Niigata&Population=802,157&old age population=29.77&RESAS_url=https://resas.go.jp/population-composition/%23/transition/15/15100/2015/2/7.862120725488497/37.667907075/139.442791/-"`. The request body is a JSON object with the following fields:

Field	Value
id	"21"
name(city)	"Niigata"
Population	"802,157"
old age population	"29.77"

The response status is 201 Created, with a time of 1242 ms and a size of 979 B. The response body is a JSON object:

```
{  "created": 1}
```

確認

降順で id=21, よって POST 成功

全ての VULUE に「" 」をつけてしまったことで、従来のものと異なる形式になってしまった。

The screenshot shows a Postman interface for a GET request. The URL is `https://sheetdb.io/api/v1/pdlo3fpy64n1g?sort_by=id&sort_order="desc"&limit=1`. The response status is 200 OK, with a time of 611 ms and a size of 1.21 KB. The response body is a JSON object:

```
{  "id": "\"21\"",  "name(city)": "\"Niigata\"",  "Population": "\"802,157\"",  "old age population(%)": "\"",  "RESAS_url": "\"https://resas.go.jp/population-composition/#/transition/15/15100/2015/2/7.862120725488497/37.667907075/139.442791/-"
```

(イ) DELETE の実行結果 (一部のコンテンツだけを DELETE した場合)

実行結果

DELETE

https://sheetdb.io/api/v1/pdlo3fpy64n1g/id/"21"

Send

Params

Authorization

Headers (5)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body

Cookies

Headers (20)

Test Results

Status: 200 OK

Time: 980 ms

Size: 1009 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "deleted": 1
3 }
```

確認

降順で id=20, よって DELETE 成功

GET

https://sheetdb.io/api/v1/pdlo3fpy64n1g?sort_by=id&sort_order=desc&limit=1

Send

Params

Authorization

Headers (5)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> sort_by	id			×
<input checked="" type="checkbox"/> sort_order	desc			
<input checked="" type="checkbox"/> limit	1			
Key	Value	Description		

Body

Cookies

Headers (20)

Test Results

Status: 200 OK

Time: 376 ms

Size: 1.2 KB

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "id": "20",
3   "name(city)": "Kaneyama",
4   "Population": "5,293",
5   "old age population(%)": "36.05",
6   "RESAS_url": "https://resas.go.jp/population-composition/#/transition/6/06361/2015/2/7.087462841250339/38.526535045/140.47",
7 }
8
9 }
```