Example: How Hadoop Works

Collect and Store Data As Is, Schemaless.

Request

```
GET https://www.googleapis.com/youtube/v3/commentThreads?part=snippet&maxResults=25&videoId=O4PXqpv8TAw&key={YOUR_API_KEY}
```
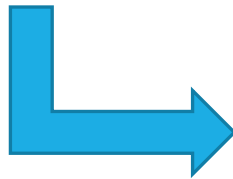
Response

```
200 OK

- Show headers -

- {
  "kind": "youtube#commentThreadListResponse",
  "etag": "\"q5k97EMVGxODeKcDgp8gnMu79wM/1qCaY8zGX8gKVG6NRyNEbR3oSE8\"",
  - "pageInfo": {
    "totalResults": 16,
    "resultsPerPage": 25
  },
  - "items": [
    - {
      "kind": "youtube#commentThread",
      "etag": "\"q5k97EMVGxODeKcDgp8gnMu79wM/3uP8cTARSOm44LzKPV_LIHj5v8Q\"",
      "id": "z13si3gb1r3wdl0wi04ccjsoww2wetoovoc0k",
      - "snippet": {
        "videoId": "O4PXqpv8TAw",
        - "topLevelComment": {
          "kind": "youtube#comment",
          "etag": "\"q5k97EMVGxODeKcDgp8gnMu79wM/MZK1edJ37NuMaz2UxwOIvaHqZgk\"",
          "id": "z13si3gb1r3wdl0wi04ccjsoww2wetoovoc0k",
          - "snippet": {
```

YouTube Comments

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Apply a Schema on Read

```
    },
    "videoId": "O4PXqpv8TAw",
    "textDisplay": "excellent video!\ufeff",
    "authorGoogleplusProfileUrl": "https://plus.google.com/100257256306278377832",
    "canRate": true,
    "viewerRating": "none",
    "likeCount": 0,
    "publishedAt": "2015-02-02T02:05:16.042Z",
    "updatedAt": "2015-02-02T02:05:16.042Z"
```

```
create external table youtube.comments (
    videoId STRING,
    likes INT,
    text STRING,
    pub_date STRING
) location '/user/mafudge/youtubecomments/';
```

videoId	likes	text	pub_date
O4PXqpv8TAw	0	excellent video!\efeff	2015-02-02T02:05:16.042Z
…	…	…	…

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Analyze Your Data

videoId	likes	text	pub_date
O4PXqpv8TAw	0	excellent video!\ufeff	2015-02-02T02:05:16.042Z
…	…	…	…

```
select videoId, sum(likes)
    from youtube.comments
    group by videoId
    order by sum(likes) desc
    limit 10;
```

videoId	sum(likes)
O4PXqpv8TAw	56
V56Xqyy-2wq	14
…	…

Export/ Visualize

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