**GQL Query Flow using Cursor (Paging)**

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Here is a query run using cursor paging of results. All code samples are in Python. Can do a loop to run through all the pages for each initial query.

GQL Tips

IntelliSense Fields  
  
Click anywhere in the query and hit Ctrl+SpaceKey and will popup all available options based on node/location in the script.

|  |
| --- |
|  |

## Force Unlock Reservation

|  |
| --- |
| mutation unlockReservationHelp {  reservationUnlock(  input: {  id: "Reservation|10249"  }) {  clientMutationId  operationResult  }  } |

# Login Request

|  |
| --- |
| mutation login {  login( role:Internal ) {  token  }  } |

# Login Response

|  |
| --- |
| {  "data": {  "login": {  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOm51bGwsImlzcyI6IlZlcnNvbml4Iiwic2Vhd2FyZS5ndWlkIjoiZmQ3YjU2ZDQtNjc3ZS00ZTNhLWI1NWMtZTdiZmYyNDQyMzljIn0.M0rFO4ug6thXQaCo0j0axu4nl4CIdZWEtl1dJQP8oaI"  }  },  "extensions": {  "access\_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOm51bGwsImlzcyI6IlZlcnNvbml4Iiwic2Vhd2FyZS5ndWlkIjoiZmQ3YjU2ZDQtNjc3ZS00ZTNhLWI1NWMtZTdiZmYyNDQyMzljIn0.M0rFO4ug6thXQaCo0j0axu4nl4CIdZWEtl1dJQP8oaI",  "server\_time": "2025-05-15T14:20:27.842057009",  "seaware\_version": "SW: 37.15.1 <SEAWARE@UNCPRODORA>; GQL: 2.2.3b, 371"  }  } |

Python Code Sample headers – grab the data.login.token and build an Authorization header then include the header in the post request.

  headers = {

    'Authorization': f'Bearer {token}'

  }  
  
response = requests.post(url=get\_graphql\_url(), json={"query": query}, headers=headers)

# Query Request (Page 1)

|  |
| --- |
| query getReservationsCursor(  $first: Int = 1  $after: String  $resIDs: [String!]  $resStatusVals: [IdOrKey!] = [{key:"BK"}]  $sailStartDate: Date = "2024-01-01"  $sailEndDate: Date = "2026-02-01"  $clientID: IdOrKey  $clientLastName: String) {  reservations(  #number of records to return  first: $first  #the cursor from the previous page of search results  after: $after  params: {  keys: $resIDs,  # Status Values - BK, CL, CX, OF, QT  resStatuses: $resStatusVals  #resStatuses: [{key:"BK"}]  #resStatuses: [{key:"BK"}]    sailStartDateRange: { from: $sailStartDate, to: $sailEndDate }  client: $clientID  clientLastName: $clientLastName    }) {  edges {  node {  id  }  cursor  }  pageInfo {  hasPreviousPage  hasNextPage  startCursor  endCursor  }  }  } |

* Set first to be the number of results to include in each page (500 is the max)
* Include cursor keyword in the node
* Add the pageInfo collection

# Query Response (Page 1)

|  |
| --- |
| {  "data": {  "reservations": {  "edges": [  {  "node": {  "id": "Reservation|10019"  },  "cursor": "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywAAgAA="  }  ],  "pageInfo": {  "hasPreviousPage": false,  "hasNextPage": true,  "startCursor": "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywAAgAA=",  "endCursor": "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywAAgAA="  }  }  },  "extensions": {  "access\_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOm51bGwsImlzcyI6IlZlcnNvbml4Iiwic2Vhd2FyZS5ndWlkIjoiMWFjMDI4ZDgtZjlhNy00OTk2LTk1YjItMTlhYmRiMWE2N2MzIn0.gKjxAc1mt3slJpma0vdmh6DMFbXCjZqu9bSbI1CTcA8",  "server\_time": "2025-05-15T14:13:30.348640688",  "seaware\_version": "SW: 37.15.1 <SEAWARE@UNCPRODORA>; GQL: 2.2.3b, 371"  }  } |

* Save the endCursor because you use that on the subsequent query

# Query Request (Page 2)

|  |
| --- |
| query getReservationsCursor(  $first: Int = 1  $after: String = "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywAAgAA="  $resIDs: [String!]  $resStatusVals: [IdOrKey!] = [{key:"BK"}]  $sailStartDate: Date = "2024-01-01"  $sailEndDate: Date = "2026-02-01"  $clientID: IdOrKey  $clientLastName: String) {  reservations(  #number of records to return  first: $first  #the cursor from the previous page of search results  after: $after  params: {  keys: $resIDs,  # Status Values - BK, CL, CX, OF, QT  resStatuses: $resStatusVals  #resStatuses: [{key:"BK"}]  #resStatuses: [{key:"BK"}]    sailStartDateRange: { from: $sailStartDate, to: $sailEndDate }  client: $clientID  clientLastName: $clientLastName    }) {  edges {  node {  id  }  cursor  }  pageInfo {  hasPreviousPage  hasNextPage  startCursor  endCursor  }  }  } |

* Set the after to be the endCursor value so that you get the next reservation

# Query Response (Page 2)

|  |
| --- |
| {  "data": {  "reservations": {  "edges": [  {  "node": {  "id": "Reservation|10040"  },  "cursor": "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywEAgAA="  }  ],  "pageInfo": {  "hasPreviousPage": true,  "hasNextPage": false,  "startCursor": "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywEAgAA=",  "endCursor": "NB8DA3NhaWxTdGFydERhdGVSYW5n5R8DA2Zyb+0k6A8BAQN07yTqDwIBA3Jlc1N0YXR1c2XzEoIfAAIDa2X5DgNCywEAgAA="  }  }  },  "extensions": {  "access\_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOm51bGwsImlzcyI6IlZlcnNvbml4Iiwic2Vhd2FyZS5ndWlkIjoiMWFjMDI4ZDgtZjlhNy00OTk2LTk1YjItMTlhYmRiMWE2N2MzIn0.gKjxAc1mt3slJpma0vdmh6DMFbXCjZqu9bSbI1CTcA8",  "server\_time": "2025-05-15T14:14:56.42813997",  "seaware\_version": "SW: 37.15.1 <SEAWARE@UNCPRODORA>; GQL: 2.2.3b, 371"  }  } |

# Logout Request

|  |
| --- |
| mutation logout {  logout  } |

# Logout Response

|  |
| --- |
| {  "data": {  "logout": false  },  "extensions": {  "access\_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOm51bGwsImlzcyI6IlZlcnNvbml4Iiwic2Vhd2FyZS5ndWlkIjoiZmQ3YjU2ZDQtNjc3ZS00ZTNhLWI1NWMtZTdiZmYyNDQyMzljIn0.M0rFO4ug6thXQaCo0j0axu4nl4CIdZWEtl1dJQP8oaI",  "server\_time": "2025-05-15T14:20:38.842548921",  "seaware\_version": "SW: 37.15.1 <SEAWARE@UNCPRODORA>; GQL: 2.2.3b, 371"  }  } |