Developers

Cursor Class (Beta)

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Contains methods to fetch records and to get the number of cursor rows returned from a SOQL query.

Namespace

Database

Usage

> ℹ **Note**
>
> This feature is a Beta Service. Customer may opt to try such Beta Service in its sole discretion. Any use of the Beta Service is subject to the applicable Beta Services Terms provided at Agreements and Terms. You can provide feedback and suggestions for the feature in the Trailblazer Community.

A cursor is created when a SOQL query is executed on a `Database.getCursor()` or a `Database.getCursorWithBinds()` call. When the SOQL query is invoked, the corresponding rows are returned from the cursor. The maximum number of rows per cursor is 50 million, regardless of the operation being synchronous or asynchronous.

Example

```
public class QueryChunkingQueuable implements Queueable {
    private Database.Cursor locator;
    private integer position;

    public QueryChunkingQueuable() {
        locator = Database.getCursor
                ('SELECT Id FROM Contact WHERE LastActivityDate = LAST_N_DAYS:400');
        position = 0;
    }

    public void execute(QueueableContext ctx) {
        List<Contact> scope = locator.fetch(position, 200);
        position += scope.size();
        // do something, like archive or delete the scope list records
        if(position < locator.getNumRecords() ) {
            // process the next chunk
            System.enqueueJob(this);
        }
    }
}
```

- **Cursor Methods**

Cursor Methods

synchronous or asynchronous.
- **getNumRecords()**
  Gets the number of rows returned in an Apex cursor from a `Cursor.fetch(position, count)` operation.

fetch(position, count)

Fetches cursor rows that correspond to the offset position and the specified record count. The maximum number of rows per cursor is 50 million, regardless of the operation being synchronous or asynchronous.

Signature

```
public static List<SObject> fetch(Integer position, Integer count)
```

Parameters

position

Type: Integer

The offset position from which records are fetched.

count

Type: Integer

The number of sObjects to fetch from the cursor, up to a maximum of 2,000.

Return Value

Type: List<sObject>

The list of sObjects from the SOQL query, starting from the specified position.

getNumRecords()

Gets the number of rows returned in an Apex cursor from a `Cursor.fetch(position, count)` operation.

Signature

```
public static Integer getNumRecords()
```

Return Value

Type: Integer

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