SQL OFFSET-FETCH Clause

* OFFSET excludes the first set of records.
* OFFSET can only be used with an ORDER BY clause.
* OFFSET with FETCH NEXT returns a defined window of records.
* OFFSET with FETCH NEXT is great for building pagination support.

The SQL ORDER BY OFFSET syntax

The general syntax to exclude first n records is: 

1. **SELECT column-names**
2. **FROM table-name**
3. **ORDER BY column-names**
4. **OFFSET n ROWS**

To exclude first n records and return only the next m records:

1. **SELECT column-names**
2. **FROM table-name**
3. **ORDER BY column-names**
4. **OFFSET n ROWS**
5. **FETCH NEXT m ROWS ONLY**

This will return only record (n + 1) to (n + 1 + m). See example below. 

|  |
| --- |
| **PRODUCT** |
| Id |
| ProductName |
| SupplierId |
| UnitPrice |
| Package |
| IsDiscontinued |

SQL OFFSET-FETCH Examples

**Problem**: Get all but the 10 most expensive products sorted by price

1. **SELECT Id, ProductName, UnitPrice, Package**
2. **FROM Product**
3. **ORDER BY UnitPrice DESC**
4. **OFFSET 10 ROWS**

**Results:** 68 records. 

|  |  |  |  |
| --- | --- | --- | --- |
| Id | ProductName | UnitPrice | Package |
| 27 | Schoggi Schokolade | 43.90 | 100 - 100 g pieces |
| 63 | Vegie-spread | 43.90 | 15 - 625 g jars |
| 8 | Northwoods Cranberry Sauce | 40.00 | 12 - 12 oz jars |
| 17 | Alice Mutton | 39.00 | 20 - 1 kg tins |
| 12 | Queso Manchego La Pastora | 38.00 | 10 - 500 g pkgs. |
|  | | | |

|  |
| --- |
| **PRODUCT** |
| Id |
| ProductName |
| SupplierId |
| UnitPrice |
| Package |
| IsDiscontinued |

**Problem**: Get the 10th to 15th most expensive products sorted by price

1. **SELECT Id, ProductName, UnitPrice, Package**
2. **FROM Product**
3. **ORDER BY UnitPrice DESC**
4. **OFFSET 10 ROWS**
5. **FETCH NEXT 5 ROWS ONLY**

**Results:** 5 records 

|  |  |  |  |
| --- | --- | --- | --- |
| Id | ProductName | UnitPrice | Package |
| 27 | Schoggi Schokolade | 43.90 | 100 - 100 g pieces |
| 63 | Vegie-spread | 43.90 | 15 - 625 g jars |
| 8 | Northwoods Cranberry Sauce | 40.00 | 12 - 12 oz jars |
| 17 | Alice Mutton | 39.00 | 20 - 1 kg tins |
| 12 | Queso Manchego La Pastora | 38.00 | 10 - 500 g pkgs |