

Import statement

```
use
Magento\Catalog\Model\ResourceModel\Product\CollectionFactory
as ProductCollectionFactory;
```

Constructor

```
/**
 * @var ProductCollectionFactory
 */
private $productCollectionFactory;
/**
 * @param ProductCollectionFactory $productCollectionFactory
 */
public function __construct(
    ProductCollectionFactory $productCollectionFactory
) {
    $this->productCollectionFactory = $productCollectionFactory;
}
```

Product Types

```
\Magento\Catalog\Model\Product\Type::TYPE_SIMPLE
\Magento\Catalog\Model\Product\Type::TYPE_BUNDLE
\Magento\Catalog\Model\Product\Type::TYPE_VIRTUAL
\Magento\Downloadable\Model\Product\Type::TYPE_DOWNLOADABLE
\Magento\ConfigurableProduct\Model\Product\Type\Configurable::TYPE_CODE
\Magento\GroupedProduct\Model\Product\Type\Grouped::TYPE_CODE
```

Visibility filter

```
/**
 * @var \Magento\Catalog\Model\Product\Visibility
 */
protected $productVisibility;
public function __construct(
    \Magento\Catalog\Model\Product\Visibility $productVisibility,
) {
    $this->productVisibility = $productVisibility;
}
[...]
$collection->setVisibility($this->productVisibility->getVisibleInSiteIds());
[...]
```

Filters

```
// Is Equal To
$collection->addAttributeToFilter('status', ['eq' => 1]);
// Is Not Equal To
$collection->addAttributeToFilter('visibility', ['neq' => 1]);
// Greater Than
$collection->addAttributeToFilter('price', ['gt' => 3]);
// Less Than
$collection->addAttributeToFilter('price', ['lt' => 3]);
// Greater Than or Equal To
$collection->addAttributeToFilter('price', ['gteq' => 4]);
// Less Than or Equal To
$collection->addAttributeToFilter('price', ['lteq' => 4]);
// Contains - with % wildcards
$collection->addAttributeToFilter('sku', ['like' => 'DVD%']);
```



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Filters (cont)

```
// Does Not Contain - with % wildcards
$collection->addAttributeToFilter('sku', ['nlike' => 'ABC%']);
// In Array
$collection->addAttributeToFilter('entity_id', ['in' => [1,3,12]]);
// Not In Array
$collection->addAttributeToFilter('entity_id', ['nin' => [1,2,12]]);
// Is NULL
$collection->addAttributeToFilter('description', 'null');
$collection->addAttributeToFilter('description', ['null' => true]);
// Is Not NULL
$collection->addAttributeToFilter('description', 'notnull');
$collection->addAttributeToFilter('description', ['notnull' => true]);
```

Add Price Data

```
$collection->addPriceData();
```

Simple filter

```
$collection->addAttributeToFilter('type_id', $typeFilter);
```

More complex filter

```
$collection->addAttributeToFilter(
    'status',
    ['in' => 'processing']
);
```

Or filter

```
// Or
$collection->addAttributeToFilter([
    [
        'attribute' => 'download_link',
        'null' => true,
    ],
    [
        'attribute' => 'download_link',
        'eq' => '',
    ],
]);
```

In Stock Filter

```
/**
 * @var \Magento\CatalogInventory\Helper\Stock
 */
protected $stockHelper;
public function __construct(
    \Magento\CatalogInventory\Helper\Stock
    $stockHelper
) {
    $this->stockHelper = $stockHelper;
}
[...]
$this->stockFilter->addInStockFilterToCollection(
    ($collection);
[...]
```



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Get Price Data

```
$collection->getMaxPrice();
$collection->getMinPrice();
$collection->getPriceStandardDeviation();
$collection->getPricesCount();
```

Create

```
$collection = $this->productCollectionFactory->create();
```

Filter by Product ID

```
$collection->addIdFilter($productId);
```

Filter by Store ID

```
$collection->addStoreFilter($storeId);
```

Select Attribute

```
$collection->addAttributeToSelect($attributeCode);
```

Get first item

```
return $collection->getFirstItem();
```

Get raw attribute value

```
return $collection->getFirstItem()->getData($attributeCode);
```

Status Filter

```
/**
 * @var Magento\Catalog\Model\Product\Attribute\Source\Status
 */
protected $productStatus;
public function __construct(
    \Magento\Catalog\Model\Product\Attribute\Source\Status $productStatus
) {
```

Status Filter (cont)

```
    $this->productStatus = $productStatus;
}
[...]
$collection->addAttributeToFilter(
    'status',
    ['in' => $this->productStatus->getVisibleStatusIds()
]);
[...]
```

Category Filter

```
$collection->addCategoryFilter($category);
```

Return only IDs

```
return $collection->getAllIds();
```

Debug Query

```
echo (string) $collection->getSelect();
$collection->printLogQuery(true);
```

Add Media

```
$collection->addMediaGalleryData();
```

Add Tier Price Data

```
$collection->addTierPriceData();
$collection->addTierPriceDataByGroupId($customerGroupId);
```



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Add Category IDs

```
$collection->addCategoryIds();
```

Add Website Names

```
$collection->addWebsiteNamesToResult();
```

Join Stock Qty to collection

```
$collection->joinField(  
    'qty',  
    'cataloginventory_stock_item',  
    'qty',  
    'product_id=entity_id',  
    '{{table}}.stock_id=1',  
    'left'  
);
```

Generic Collection

```
// Sort Collection  
// Order by Attribute Ascending  
$collection->setOrder('price', 'ASC');  
  
// Order by Attribute Descending  
$collection->setOrder('name', 'DESC');  
// Random Order  
$collection->setOrder('rand()');  
// Limit Collection  
$collection->setPageSize(10);  
$collection->setCurPage(1);  
  
// Count Results  
$collection->count();
```

Add URL data

```
$collection->addUrlRewrite($categoryId);
```

Add Tax Percents

```
$collection->addTaxPercents();
```

Add Options

```
$collection->addOptionsToResult();
```

Add Sort

```
$collection->addAttributeToSort('name', 'DESC');
```

Free Up Memory

```
$collection->clear();
```



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