



# MAGENTO2-CERTIFIED-ASSOCIATE-DEVELOPER<sup>Q&As</sup>

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### QUESTION 1

You are building a report using complex SQL aggregations to locate the required data.

In what type of class do you put these SQL statements?

- A. Resource model
- B. Repository
- C. Model
- D. Helper

Correct Answer: C

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### QUESTION 2

The constructor function for `\Magento\Catalog\Model\Category` contains this excerpt:

```
public function __construct(  
    // ...  
    \Magento\Store\Model\StoreManagerInterface $storeManager  
    // ...  
) { /* ... */ }
```

With the automatic dependency injection that Magento provides, how is the `StoreManagerInterface` resolved?

- A. If no `$storeManager` is provided, Magento's code generator creates a shell concrete class based on `\Magento\Store\Model\StoreManagerInterface`
- B. Magento finds all classes that implement `\Magento\Store\Model\StoreManagerInterface` (ordered alphabetically) and injects the first class.
- C. Magento looks to the `di.xml` files in the entire system for a preference node for `\Magento\Store\Model\StoreManagerInterface`. This class is constructed and injected
- D. Magento throws an exception because you cannot instantiate an interface

Correct Answer: A

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### QUESTION 3

Magento 2's architecture uses code to bootstrap a custom module that resides in `app/code`.

What two files are required to make a module usable? (Choose two.)

- A. `Helper/Data.php`



- B. etc/config.xml
- C. etc/module.xml
- D. registration.php

Correct Answer: CD

Reference: <https://inchoo.net/magento-2/how-to-create-a-basic-module-in-magento-2/>

#### QUESTION 4

Assume that `$collection` is a new instance of a class that extends `Magento\Framework\Model\ResourceModel\Db\Collection\AbstractCollection`, and `$ids` is an array of ids.

How do you select a list of records from the database where the record ids are in the `$ids` list?

- A. `$collection->addFieldToFilter('record_id\',[ 'in\'=> $ids]);`

```
$collection->addFilter($filterBuilder  
->setType('in')  
->setValue($ids)  
->create()  
);
```

where `$filterBuilder` is an instance of a `Magento\Framework\Api\FilterBuilder` class.

- B.
- C. `$collection->in($ids);`
- D. `$collection->filterIn($ids);`

Correct Answer: A

Reference: <https://magento.stackexchange.com/questions/121040/how-to-get-product-collections-by-setof-ids-in-magento-2>

#### QUESTION 5

A module declares the route:

```
<route id="mymodule" frontName="custom">
```

What is the layout handle of the storefront path `/custom/feature/`?

- A. `mymodule_feature`
- B. `custom_feature`
- C. `mymodule_feature_index`



D. custom\_feature\_index

Correct Answer: B

### QUESTION 6

There are two different configurable products which both share one variation. The shared variation is represented by the same simple product.

A customer added both configurables to the cart with the same selected variation?

How will they be displayed?

A. As two separate line items with quantity 1 each

B. As one line item which lists both configurable products with quantity 1 each

C. As one line item of the first product with quantity 2

D. As one line item of the second product with quantity 2

Correct Answer: B

Reference: <https://firebearstudio.com/blog/the-complete-guide-to-magento-2-configurable-products.html>

### QUESTION 7

You want to declare a block of the type \Magento\Framework\View\Element\Template with a template named view.phtml in the layout XML.

What is the correct layout declaration for this?

A. 

```
<block class="Magento\Framework\View\Element\Template" name="myblock" template="view.phtml" scope="MyCompany_MyModule" />
```

B. 

```
<container module="MyCompany_MyModule">
  <block class="Magento\Framework\View\Element\Template" name="myblock"
  template="view.phtml" />
</container>
```

C. 

```
<block class="Magento\Framework\View\Element\Template" name="myblock"
template="MyCompany/MyModule/view/frontend/templates/view.phtml" />
```

A. B. C.

```
<block class="Magento\Framework\View\Element\Template" name="myblock"
template="MyCompany_MyModule::view.phtml" />
```

D.



Correct Answer: C

Reference: <https://www.mageplaza.com/magento-2-module-development/view-block-layout-templatemagento-2.html>

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### QUESTION 8

You are reviewing a Magento module and see a directory named Service. What can you determine from this directory's name?

- A. It is where the API response cache is stored
- B. It is where API-related configuration resides
- C. It is where the module's service contracts are stored
- D. You need to review the files in this folder to understand its purpose

Correct Answer: D

Reference: <https://stackoverflow.com/questions/55337322/what-is-the-use-of-service-directory-inmagento-2>

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### QUESTION 9

You have to install a new module on the production environment. All the module is adding a new product attribute. You enabled maintenance mode, copied the module code, run bin/magento setup:upgrade and disabled maintenance mode.

What two risks does this process pose? (Choose two.)

- A. It will clean all caches which will cause a performance degradation
- B. The new attribute will be invisible on the storefront until the cache is cleaned manually
- C. It will void all active sessions
- D. It will clean static assets from the pub/static folder

Correct Answer: BC

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### QUESTION 10

You are developing a module and need to add another column to a table introduced by another module MyCompany\_MyModule via db schema.

How do you do that?

- A. Create a etc/db\_schema.xml file in your module, add the column and run bin/magento setup:upgrade
- B. Create a etc/db.xml file in your module, add the column and run bin/magento setup:dbschema:upgrade
- C. Run a command: bin/magento setup:db-schema:upgrade



D. Create a etc/db\_schema\_whitelist.json file in your module, add the column and run bin/magento setup:upgrade

Correct Answer: C

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### QUESTION 11

In a custom module you are adding a new field to the store configuration. The field will set the value for the configuration path mycompany/mymodule/myoption.

How do you supply the default value for that configuration option?

- A. In the config/default/mycompany/mymodule/myoption node in the etc/config.xml file
- B. In the system/mycompany/group/mymodule/field/myoption node in the etc/system.xml file
- C. In the menu/default/section/group/field node in the file etc/adminhtml/menu.xml
- D. In the system/section/group/field/value node in the etc/adminhtml/system.xml file

Correct Answer: A

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### QUESTION 12

\Magento\Sales\Model\Api\OrderRepositoryInterface::getList accepts a SearchCriteriaInterface to filter and sort information.

What class assists in creating an instance for SearchCriteriaInterface?

- A. \Magento\Framework\Api\SearchCriteriaFactory
- B. \Magento\Framework\Api\SearchCriteriaBuilder
- C. \Magento\Sales\Model\Order\SearchCriteria
- D. \Magento\Backend\Api\SearchCriteriaGenerator

Correct Answer: B

Reference: <https://github.com/magento/magento2/blob/2.3/lib/internal/Magento/Framework/Api/SearchCriteriaInterface.php>

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### QUESTION 13

Which three scopes can be used to set different System Configuration values in Magento? (Choose three.)

- A. Language
- B. Area
- C. Store View



D. Store

E. Website

Correct Answer: BCE

Reference: <https://devdocs.magento.com/guides/v2.3/config-guide/cli/config-cli-subcommands-configmgmt-set.html>

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#### QUESTION 14

A merchant gives you the module MyCompany\_MyModule to install.

How do you identify which REST endpoints are supported by the module?

A. REST endpoints are declared in etc/webapi\_rest/di.xml

B. Every public method of every interface in the Api folder automatically is exposed as a REST endpoint

C. REST endpoints are declared in etc/rest.xml

D. REST endpoints are declared in etc/webapi.xml

Correct Answer: D

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#### QUESTION 15

You are implementing a before plugin in MyCompany\_Magic. It will intercept the same method that MyCompany\_Admission is already intercepting using a before plugin: Topmenu::getBlockHtml

Which two actions are required to ensure the new plugin will execute last? (Choose two.)

A. Include a sortOrder="20" on the new plugin in MyCompany\_Magic's etc/di.xml file

B. Configure plugin sequencing for both plugins in MyCompany\_Magic's etc/plugin\_sequence.xml file

C. Set a sortOrder="10" for MyCompany\_Admission's plugin in MyCompany\_Magic's etc/di.xml

D. Add MyCompany\_Admission as a dependency in MyCompany\_Magic's etc/module.xml file

Correct Answer: CD

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