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Adobe AD0-E716 Certification: Exam Details, Syllabus and Questions

Adobe AD0-E716 Exam Guide

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Adobe AD0-E716 Exam Syllabus Topics:

Topic	Details
Topic 1	• Demonstrate the ability to create new APIs or extend existing APIs • Demonstrate the ability to manage Indexes and customize price output
Topic 2	• Demonstrate the ability to import • export data from Adobe Commerce • Explain how the CRON scheduling system works
Topic 3	• Identify how to access different types of logs • Demonstrate understanding of branching using CLI
Topic 4	• Explain the use cases for Git patches and the file level modifications in Composer

Topic 5	• Manipulate EAV attributes and attribute sets programmatically • Demonstrate how to effectively use cache in Adobe Commerce
Topic 6	• Demonstrate the ability to update and create grids and forms • Demonstrate the ability to use the configuration layer in Adobe Commerce
Topic 7	• Demonstrate the ability to extend the database schema • Describe how to add and configure fields in store settings

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Adobe Commerce Developer with Cloud Add-on Sample Questions (Q40-Q45):

NEW QUESTION # 40

An Adobe Commerce developer has installed a module from a third-party vendor. This module fires a custom event named `third_party_event_after` and also defines an observer named `third_party_event_after_observer` that listens to that event. The developer wants to listen to this custom event in their own module but wants to execute their observer's logic after the `third_party_event_after_observer` observer has finished executing.

What would the developer do to ensure their observer runs after the observer defined by the third-party module?

- A. This is not possible as observers listening to the same event may be invoked in any order.
- B. Ensure the third-party module is listed in the `<sequence>` node of the developer's `module.xml` file.
- C. Set the sort order of the new observer to be less than that of the third-party vendor's observer.

Answer: C

Explanation:

To ensure that the developer's observer runs after the observer defined by the third-party module, they need to set the sort order of the new observer to be less than that of the third-party vendor's observer.

The sort order is a number that is assigned to each observer. The lower the number, the earlier the observer will be executed.

For example, if the third-party vendor's observer has a sort order of 10, the developer's observer would need to have a sort order of 9 or lower.

NEW QUESTION # 41

What is the command used to upgrade ECE-Tools on an Adobe Commerce Cloud platform?

- A. `composer update magento/ece-tools --with-all-dependencies`
- B. `magento-cloud ece-tools:upgrade`
- C. `php ./vendor/bin/ece-tools upgrade`

Answer: A

Explanation:

The command used to upgrade ECE-Tools on an Adobe Commerce Cloud platform is `composer update magento/ece-tools --with-all-dependencies`. This command will update the ECE-Tools package and its dependencies to the latest version available in the composer repository. The developer then needs to commit and push the changes to the `composer.json` and `composer.lock` files and redeploy the environment. Verified References: [Magento 2.4 DevDocs]

NEW QUESTION # 42

An Adobe Commerce developer is trying to create a custom table using declarative schema, but is unable to do so.

```
<table name="student_details" resource="default" engine="innodb" comment="Students Detail Table">
  <column xsi:type="int" name="entity_id" padding="10" unsigned="true" nullable="false" identity="false"
    comment="Entity Id"/>
  <column xsi:type="smallint" name="roll_no" padding="2" unsigned="true" nullable="false"
    identity="true" default="null" comment="Student Roll No"/>
  <column xsi:type="text" name="student_name" nullable="false" comment="Student Name"/>
  <column xsi:type="varchar" name="student_class" length="5" nullable="false" comment="Student Class"/>
</table>
```

What are two errors in the snippet above? (Choose two.)

- A. Column (roll_no) does not have index. It is needed since attribute identity is set to true.
- B. null is not a valid value for column (roll_no).
- C. Column (entity_id) does not have index. It is needed since attribute identity is set to false.
- D. Column (student_name) does not have attribute length.

Answer: A,D

Explanation:

The correct answers are A and C.

The errors in the snippet are:

* Column roll_no does not have an index. It is needed since attribute_identity is set to true.

* Column student_name does not have an attribute length.

The attribute_identity attribute specifies whether the primary key of the table should be auto-incremented. If attribute_identity is set to true, then the roll_no column must have an index. The student_name column does not have an attribute length, which is required for string columns.

The following code shows how to fix the errors:

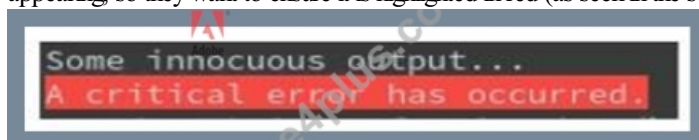
XML

```
<table name="vendor_module_table">
  <entity_id>
    <type>int</type>
    <identity>true</identity>
    <unsigned>true</unsigned>
    <nullable>false</nullable>
  </entity_id>
  <roll_no>
    <type>int</type>
    <identity>false</identity>
    <unsigned>true</unsigned>
    <nullable>false</nullable>
    <primary_key>true</primary_key>
    <index>true</index>
  </roll_no>
  <student_name>
    <type>string</type>
    <length>255</length>
    <nullable>false</nullable>
  </student_name>
</table>
```

Once the errors have been fixed, the table can be created successfully.

NEW QUESTION # 43

An Adobe Commerce developer is creating a new console command to perform a complex task with a lot of potential terminal output. If an error occurs, they want to provide a message that has higher visibility than some of the other content that may be appearing, so they want to ensure it is highlighted in red (as seen in the screenshot):



How can they customize the appearance of this message?

- A. Call the `setDecorationType(Style)` method On the `Symfony\Console\Output\OutputInterface` Object before Calling `writeln()`.
- B. Wrap the output content in tags like `<error>`, `<info>`, or `<comment>`.
- C. Throw a new `commandException` with the desired message passed as an argument.

Answer: B

Explanation:

In Adobe Commerce, when developing custom console commands, you can customize output messages by using special tags provided by Symfony Console, which Adobe Commerce relies on. These tags are designed to help differentiate types of messages and can be used to add color or emphasis to the output, enhancing visibility.

For critical error messages, wrapping the message in the `<error>` tag will display it in red, as shown in your screenshot. The available tags include:

- * `<error>` for red-colored error messages.
- * `<info>` for informational messages (often displayed in blue).
- * `<comment>` for comments or warnings (usually yellow).

```
$output->writeln('<error>A critical error has occurred.</error>');
```

This method is effective and widely used for output customization in Symfony-based console commands.

Additional Resources:

- * Adobe Commerce Developer Guide: Console Command Customization
- * Symfony Console Output Formatting

NEW QUESTION # 44

An Adobe Commerce developer is tasked with adding an new export option for the order grid, they have added the following code for the export button within `sales_order_grid.xml`:

```
<exportButton>
  <settings>
    <options>
      <option name="txt" xsi:type="array">
        <item name="value" xsi:type="string">txt</item>
        <item name="label" xsi:type="string" translate="true">TXT</item>
        <item name="url" xsi:type="string">vendor_module/sales/export/customExport</item>
      </option>
    </options>
  </settings>
</exportButton>
```

Upon testing, they are getting redirected, what would be a cause for this error?

- A. The option's uri attribute is not valid.
- B. The layout cache needs to be refreshed.
- C. The developer has to add a formkey for the new export option.

Answer: C

Explanation:

The developer has to add a formkey for the new export option because the formkey is required for security reasons. Without the formkey, the request will be rejected and redirected to the dashboard page. Verified References: [Magento 2.4 User Guide] [Magento 2.4 DevDocs] When adding custom export options to grids in Magento, it's crucial to include a form key for actions that involve form submission. Magento relies on form keys for CSRF (Cross-Site Request Forgery) protection, so omitting the form key can lead to redirects or failed operations.

* Form Key Requirement:

* In Magento, the form key is a hidden token included in forms to ensure that the request is valid.

This is particularly important for actions that change the state or export data, as it helps prevent unauthorized actions.

* Adding a custom export button triggers a form submission, which requires a valid form key.

Without it, Magento may redirect to a default page or the admin dashboard as a security measure.

* Why Option C is Correct:

* Option C correctly identifies the lack of a form key as the issue. When Magento detects a missing form key in sensitive operations, it defaults to a redirect to maintain security.

* Option A, concerning the URI, is less likely to cause a redirection. Similarly, Option B regarding layout cache would not directly impact CSRF validation, which is the cause of the redirection here.

* Solution:

