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## Module 4 - Android Content Providers

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1. Which of the following are reasons why Android provides a content resolver class (choose all that apply):

**4 / 4 points**

- ☐ It defines a schema that represents a resource managed by a content provider
- ☒ It provides additional services, such as change notification

**Correct**

See M4-L1-pt1

- ☐ It stores data persistently in an SQLite database
- ☒ It enables a content provider to be shared by multiple apps

**Correct**

See M4-L1-pt1

2. Which of the following are operations supported on content resolvers (choose all that apply):

**4 / 4 points**

- ☒ bulkInsert()

**Correct**

See M4-L1-pt2

- ☐ bulkDelete()
- ☒ insert()

**Correct**

See M4-L1-pt2

- ☐ read()

3. Which of the following are actual behaviors of XML attributes that can be used to define a provider declaration in an AndroidManifest.xml file (choose all that apply):

**4 / 4 points**

- ☐ Indicate the task that the provider has an affinity for
- ☐ List configuration changes that the provider will handle itself
- ☒ Grant permissions to allow other apps to read or write to the provider

**Correct**

See M4-L1-pt2

- ☒ Designate if the content provider runs in a separate process or not

**Correct**

See M4-L1-pt2

4. Which of the following are terms that appear in the acronym "ACID" (choose all that apply):

**8 / 8 points**

- ☒ Consistent

**Correct**

See M4-L2-pt1

- ☐ Database
- ☒ Durable

**Correct**

See M4-L2-pt1

- ☐ Asynchronous

☒ Isolated

✓ **Correct**  
See M4-L2-pt1

☒ Atomic

✓ **Correct**  
See M4-L2-pt1

☐ Concurrent

☐ Implicit

5. Which of the following are reasons why Android apps typically use concurrency or asynchrony when accessing an SQLite database (choose all that apply)

4 / 4 points

☐ SQLite doesn't support synchronous operations

☒ Filesystem accesses are often relatively slow

✓ **Correct**  
See M4-L2-pt1

☐ Android filesystems are unreliable due to their use of flash memory

☐ SQLite supports the SQL92 specification, which is obsolete

6. Which of the following are reasons why the SQLite query() method returns a Cursor (choose all that apply):

4 / 4 points

☒ It allows buffering of query results

✓ **Correct**  
See M4-L2-pt2

☐ It ensures that query results work properly in concurrent programs

☒ It is efficient since all data needn't be loaded into memory

✓ **Correct**  
See M4-L2-pt2

☐ It alleviates the need to explicitly call close() on the Cursor

7. Which of the following are reasons for using a content provider in an app (choose all that apply):

6 / 6 points

☒ To notify activities automatically when data changes

✓ **Correct**  
See M4-L3-pt1

☐ To enable long-duration operations to execute in the background

☐ To launch components on-demand in response to intents from other components

☒ To offer complex data to other apps

✓ **Correct**  
See M4-L3-pt1

☐ To support user-facing operations in different configuration orientations

☒ To synchronize local data with remote data

✓ **Correct**  
See M4-L3-pt1

8. Which of the following are parts of a content URI (choose all that apply):

4 / 4 points

☒ The symbolic name of the provider

✓ **Correct**  
See M4-L3-pt1

☒ An optional part that points to an individual row in a table

✓ **Correct**

See M4-L3-pt1

- ☒ A name that points to a table or file

✓ **Correct**  
See M4-L3-pt1

- ☐ Metadata defining the synchronization policy for concurrent access

9. Which of the following are motivations for content resolvers supporting content observers (choose all that apply):

4 / 4 points

- ☐ To initialize the associated content provider when it's first created
- ☐ To designate rows and columns to return via a cursor
- ☐ To map content URI patterns to integer values using wildcard characters
- ☒ To avoid requiring apps from having to poll for updates to data storage

✓ **Correct**  
See M4-L3-pt2

10. Which of the following are correct statements about why the HobbitActivity defines the HobbitOps class (choose all that apply):

4 / 4 points

- ☐ To create and manage the SQLite database
- ☐ To define the metadata and schema for the SQLite database
- ☐ To manage the persistent storage of Hobbit characters
- ☒ To consolidate and simplify operations on the HobbitContentProvider

✓ **Correct**  
See M4-L4