

Databricks Certified Data Engineer Associate





Data object privileges

Learning Objectives



- Data Governance Model
- Data Objects
- Privileges
- Granting Privileges by Role
- More operations

Data Governance Model



- With the data governance model in Databricks you can programmatically grant, deny and revoke access to the data from Spark SQL
- General command to give an access privilege on a specific data object to a user or group of users: **GRANT** Privilege **ON** Object <object-name> **TO** <user or group>
- **For example, GRANT SELECT ON TABLE my_table TO customer_1@organization.com**

Data Objects



- **GRANT** Privilege **ON** Object <object-name> **TO** <user or group>
- Databricks allows you to configure permissions for the following object types
- 1. **Catalog:** entire data catalog
- 2. **Database or schema:** databases contain tables, views, and functions
- 3. **Table:** managed or external
- 4. **View:** a saved query typically against one or more tables or data sources
- 5. **Function:** saved logic that returns a scalar value or set of rows
- 6. **Any file**

Privileges



Privilege	Ability
SELECT	gives read access to an object
CREATE	gives ability to create an object (for example, a table in a schema)
MODIFY	gives ability to add, delete, and modify data to or from an object
USAGE	does not give any abilities, but is an additional requirement to perform any action on a schema object
READ_METADATA	gives ability to view an object and its metadata
CREATE_NAMED_FUNCTION	gives ability to create a named UDF in an existing catalog or schema
MODIFY_CLASSPATH	gives ability to add files to the Spark class path
ALL PRIVILEGES	gives all privileges (is translated into all the above privileges)

Granting Privileges by Role



- In order to grant a privileges on an object, you need to be either **Databricks administrator** or **the object owner**

Role	Can grant access privileges for
Databricks administrator	All objects in the catalog and the underlying filesystem
Catalog owner	All objects in the catalog
Database owner	All objects in the database
Table owner	Only the table
View owner	Only the view
Function owner	Only the function



More operations

- GRANT
- DENY
- REPAIR
- REVOKE
- SHOW GRANTS

THANK YOU

