Data Governance Model

Learning Objectives

- Define data governance model building blocks

- Putting privileges and data objects in context

- Introduce the data objects hierarchy and roles

Manages privileges to data objects

- GRANT assigns a privilege

- DENY stops a privilege from being assigned

- REVOKE removes a privilege

- SHOW GRANTS displays all privileges, objects, and recipients

Manages privileges to data objects

- GRANT **privilege** ON **data_object** TO **user_or_group_of_users**

- GRANT **SELECT** ON **TABLE** TO **user_user@company.com**
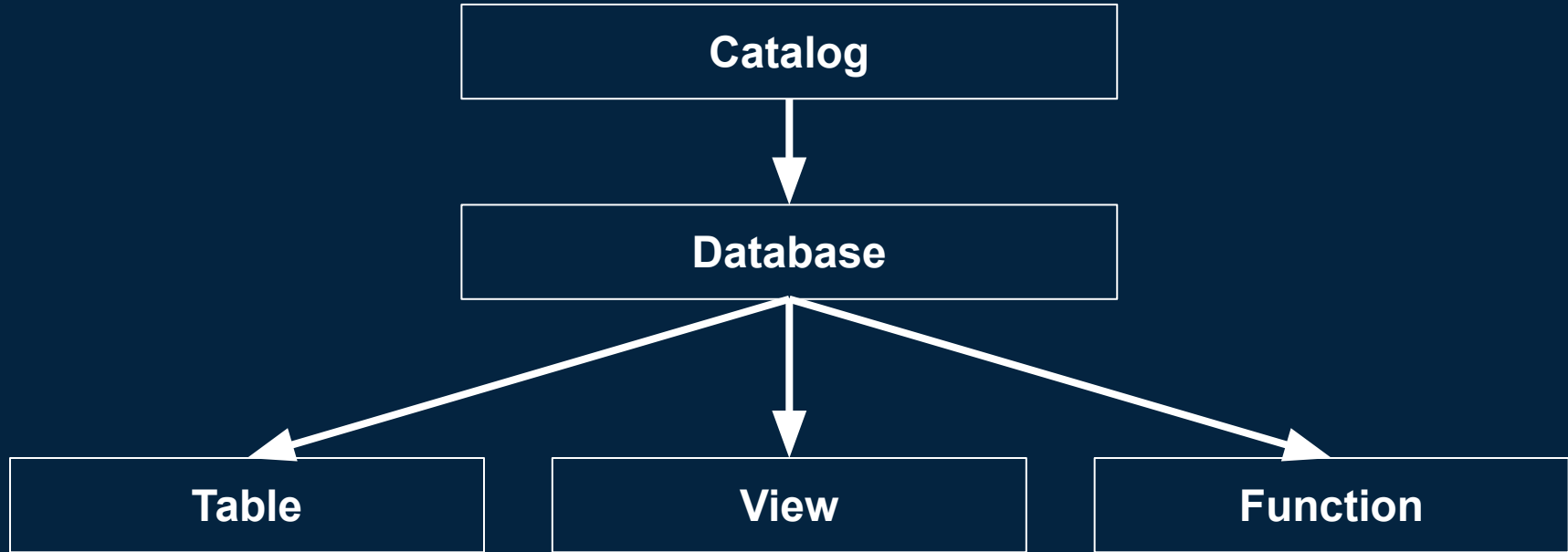
Privileges

Privilege	Description
SELECT	Query or read an object
MODIFY	Add, delete, update, and modify data on an object
CREATE	Create an object
READ METADATA	View an object and its metadata
ALL PRIVILEGES	All of the previous privileges

USAGE: it has no effect, but it is required to perform any action, on any object

Data objects

Data Object	Description
CATALOG	Privileges on the entire Databricks data catalog
DATABASE	Privileges on a specific database
TABLE	Privileges on a specific table
VIEW	Privileges related to a specific view
FUNCTION	Privileges related to a specific function
FILES	Privileges related to a specific file in dbfs

Data objects hierarchy

Roles (Databricks Administrator or Object Owners)

Role	Description
DATABRICKS ADMINISTRATOR	Manages privileges on all catalogs, their underlying objects, and dbfs
CATALOG OWNER	Manages privileges on a single catalog and its underlying objects
DATABASE OWNER	Manages privileges on a specific database and its underlying objects