Hive Commands to Ranger Permission Mapping

Action	Select	Update	Create	Drop	Alter	Index	Lock	All	URI RWX permission	Comments	
CREATE TABLE			X					X	X -for create external table – the location)		
DROP TABLE				X				X			
DESCRIBE TABLE	X							X			
SHOW PARTITIONS	X							X			
ALTER TABLE LOCATION					X			X	X - for new location		
ALTER PARTITION LOCATION					X			X	X - for new partition location		
ALTER TABLE ADD PARTITION					X			X	X - for partition location		
ALTER TABLE DROP PARTITION					X			X			
ALTER TABLE (all of them except the ones above)					X			X			
TRUNCATE TABLE		X						X			
CREATE VIEW			X					X			
ALTER VIEW PROPERTIES					X			X			
ALTER VIEW RENAME					X			X			
DROP VIEW PROPERTIES				X				X			
DROP VIEW				X				X			
ANALYZE TABLE	X							X			
SHOW DATABASES	X							X			
SHOW COLUMNS	X							X			
SHOW TABLE STATUS	X							X			
SHOW TABLE PROPERTIES	X							X			
CREATE TABLE AS SELECT	X		X					X			
CREATE INDEX			X			X		X			
DROP INDEX				X		X		X			
ALTER INDEX REBUILD					X	X		X			
ALTER INDEX PROPERTIES					X	X		X			
LOCK DB							X	X			
UNLOCK DB							X	X			
LOCK TABLE							X	X			
UNLOCK TABLE							X	X			
SELECT	X							X			
INSERT		X						X			
UPDATE		X						X			
DELETE		X						X			
LOAD	X							X	X- input location		
SHOW CREATE TABLE	X							X			
CREATE FUNCTION			X					X			
DROP FUNCTION				X				X			
MSCK (metastore check)								X		Will be addressed by Hive in Erie-M20	
ALTER DATABASE					X			X			
CREATE DATABASE			X					X			
DROP DATABASE				X				X			
IMPORT	X		X					X			
EXPORT	X	X						X			
GRANT										In Ranger - User should be "ADMIN"	
REVOKE										In Ranger - User should be "ADMIN"	
SHOW GRANT										Not Supported	
CREATE ROLE										Not Supported	
DROP ROLE										Not Supported	
SHOW CURRENT ROLES										Not Supported	
REVOKE ROLE										Not Supported	

GRANT ROLE										Not Supported	
SHOW ROLE										Not Supported	
SHOW ROLE GRANT										Not Supported	
SHOW PRINCIPALS										Not Supported	
SHOW CONF										No Ranger Auth	
LIST FILE[S] , LIST JAR[S], LIST ARCHIVE[S]										No Ranger Auth	
ADD FILE[S] , ADD JAR[S], ADD ARCHIVE[S]										No Ranger Auth	
DELETE FILE[S] , DELETE JAR[S] , DELETE ARCHIVE[S]										No Ranger Auth	
COMPILE										No Ranger Auth	
DFS										Not Supported in Ranger	
RESET										No Ranger Auth	
SET										No Ranger Auth	
SHOW FUNCTION										No Ranger Auth	
DESCRIBE FUNCTION										No Ranger Auth	
DROP MACRO										No Ranger Auth	
CREATE MACRO										No Ranger Auth	
SHOW LOCKS										No Ranger Auth	
SHOW TRANSACTIONS										No Ranger Auth	
EXPLAIN										No Ranger Auth	