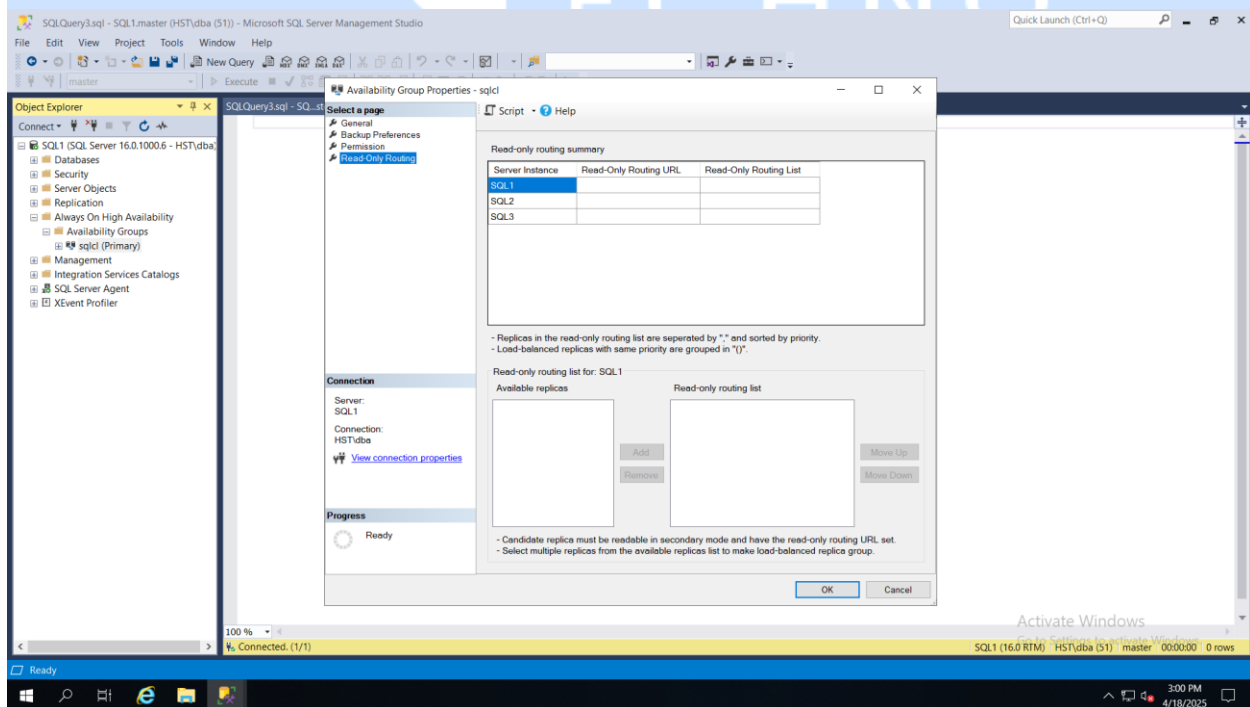
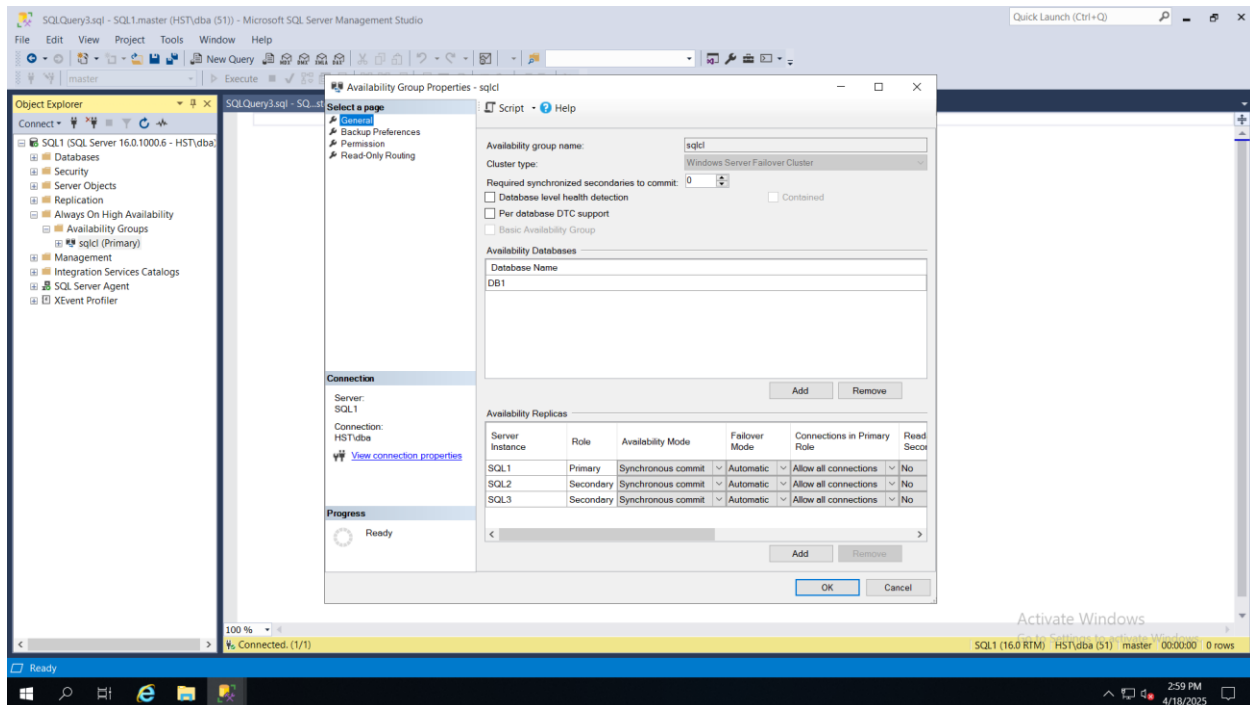




SQL Server AlwaysOn Secondary Replica Read Only Routing

HST Techno

Kamran Hussain





Execute on Primary Replica Machine of Database

-- On Primary Replica

```
ALTER AVAILABILITY GROUP [SQLCL]  
MODIFY REPLICA ON N'SQL1' WITH (SECONDARY_ROLE (ALLOW_CONNECTIONS = READ_ONLY));
```

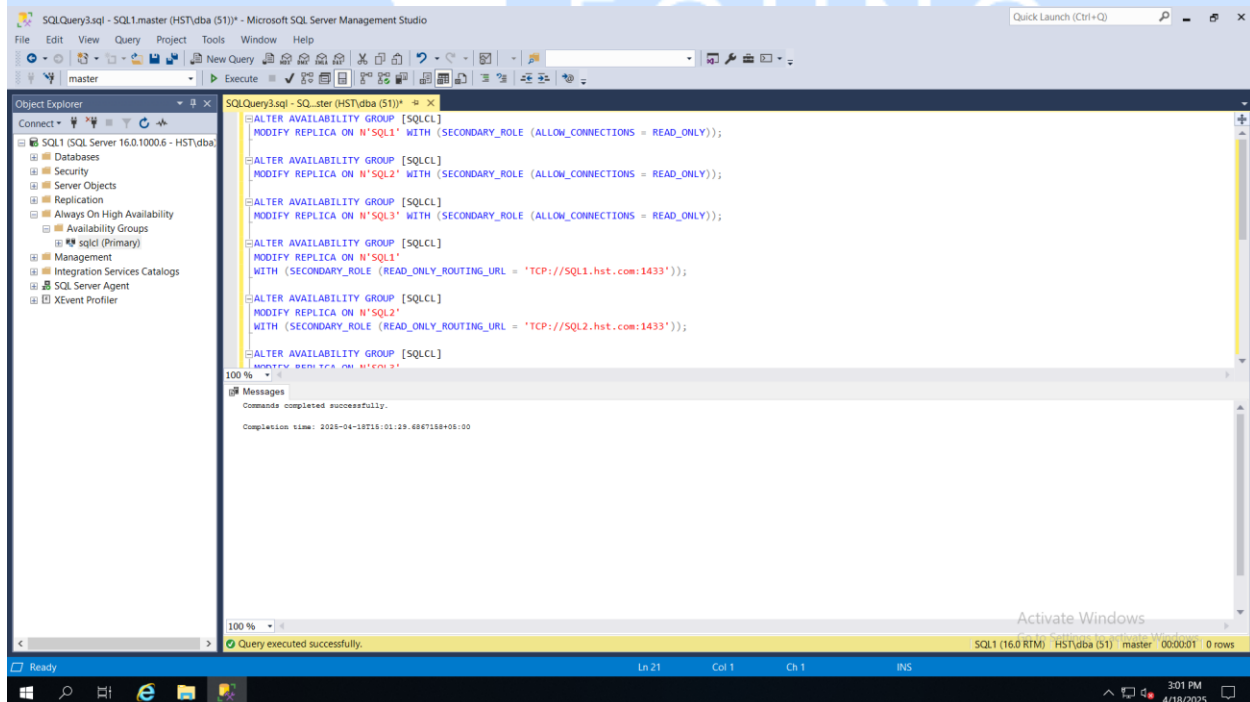
```
ALTER AVAILABILITY GROUP [SQLCL]  
MODIFY REPLICA ON N'SQL2' WITH (SECONDARY_ROLE (ALLOW_CONNECTIONS = READ_ONLY));
```

```
ALTER AVAILABILITY GROUP [SQLCL]  
MODIFY REPLICA ON N'SQL3' WITH (SECONDARY_ROLE (ALLOW_CONNECTIONS = READ_ONLY));
```

```
ALTER AVAILABILITY GROUP [SQLCL]  
MODIFY REPLICA ON N'SQL1'  
WITH (SECONDARY_ROLE (READ_ONLY_ROUTING_URL = 'TCP://SQL1.hst.com:1433'));
```

```
ALTER AVAILABILITY GROUP [SQLCL]  
MODIFY REPLICA ON N'SQL2'  
WITH (SECONDARY_ROLE (READ_ONLY_ROUTING_URL = 'TCP://SQL2.hst.com:1433'));
```

```
ALTER AVAILABILITY GROUP [SQLCL]  
MODIFY REPLICA ON N'SQL3'  
WITH (SECONDARY_ROLE (READ_ONLY_ROUTING_URL = 'TCP://SQL3.hst.com:1433'));
```

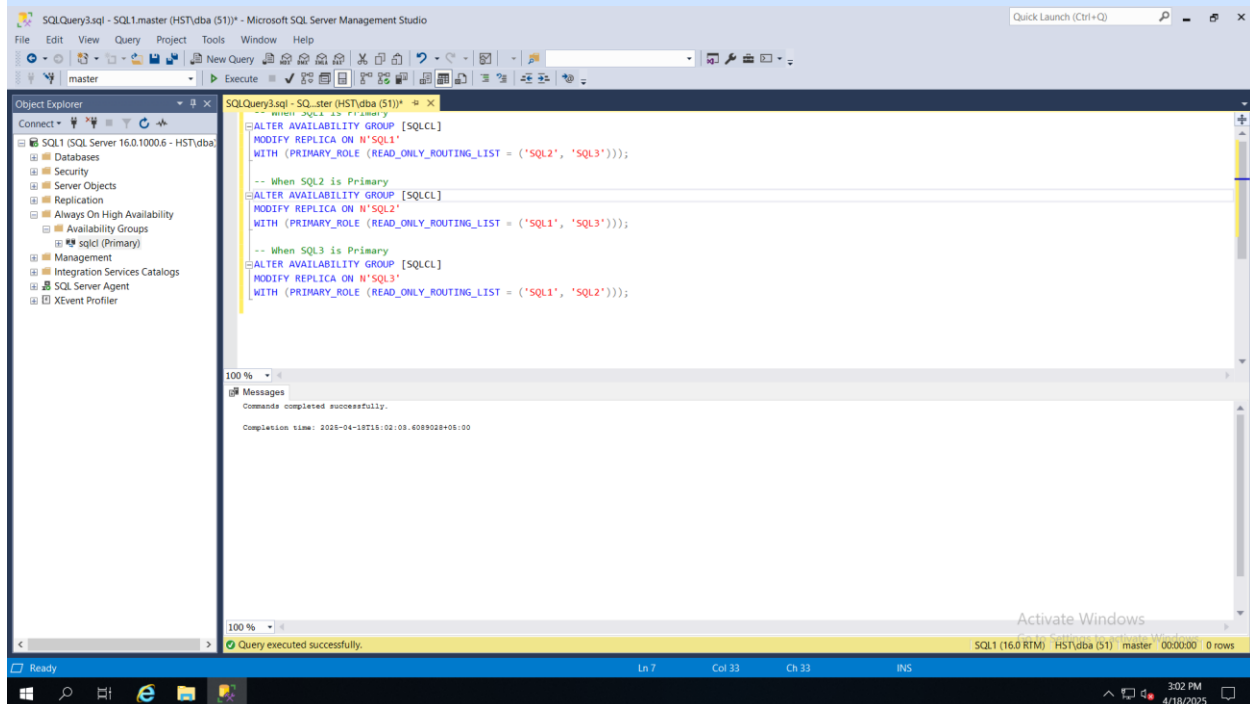




```
-- When SQL1 is Primary
ALTER AVAILABILITY GROUP [SQLCL]
MODIFY REPLICA ON N'SQL1'
WITH (PRIMARY_ROLE (READ_ONLY_ROUTING_LIST = ('SQL2', 'SQL3')));
```

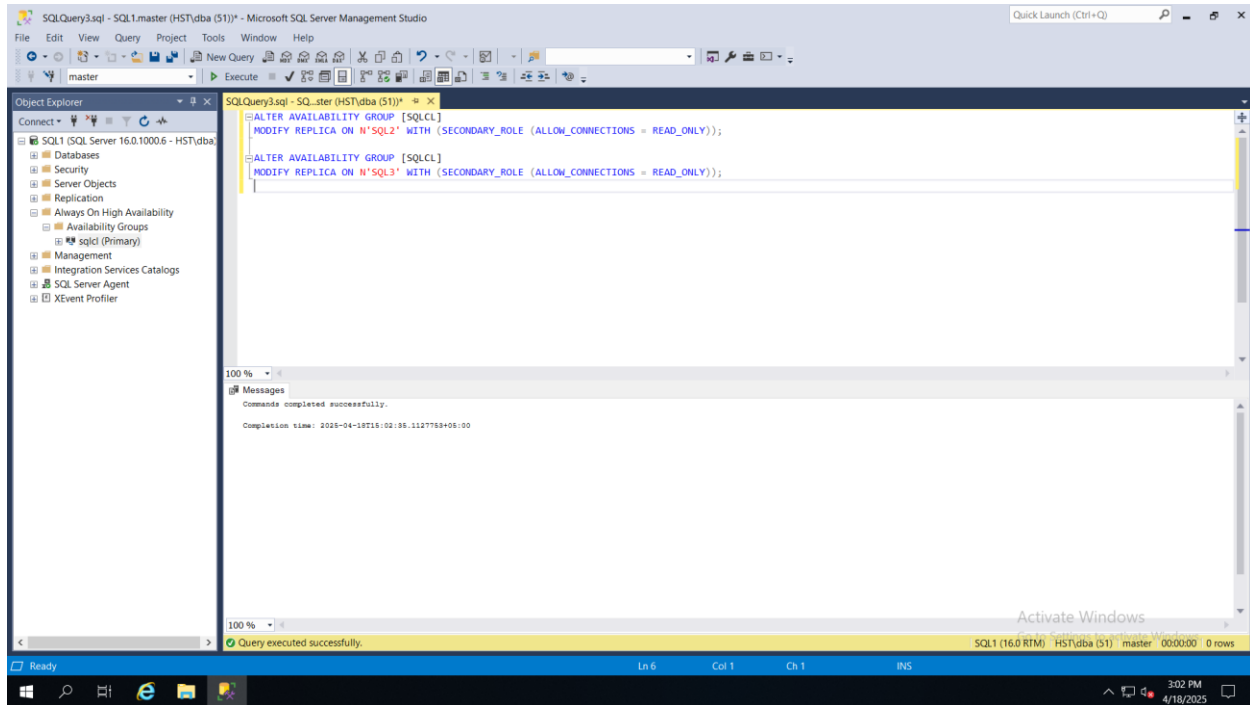
```
-- When SQL2 is Primary
ALTER AVAILABILITY GROUP [SQLCL]
MODIFY REPLICA ON N'SQL2'
WITH (PRIMARY_ROLE (READ_ONLY_ROUTING_LIST = ('SQL1', 'SQL3')));
```

```
-- When SQL3 is Primary
ALTER AVAILABILITY GROUP [SQLCL]
MODIFY REPLICA ON N'SQL3'
WITH (PRIMARY_ROLE (READ_ONLY_ROUTING_LIST = ('SQL1', 'SQL2')));
```



```
ALTER AVAILABILITY GROUP [SQLCL]
MODIFY REPLICA ON N'SQL2' WITH (SECONDARY_ROLE (ALLOW_CONNECTIONS = READ_ONLY));
```

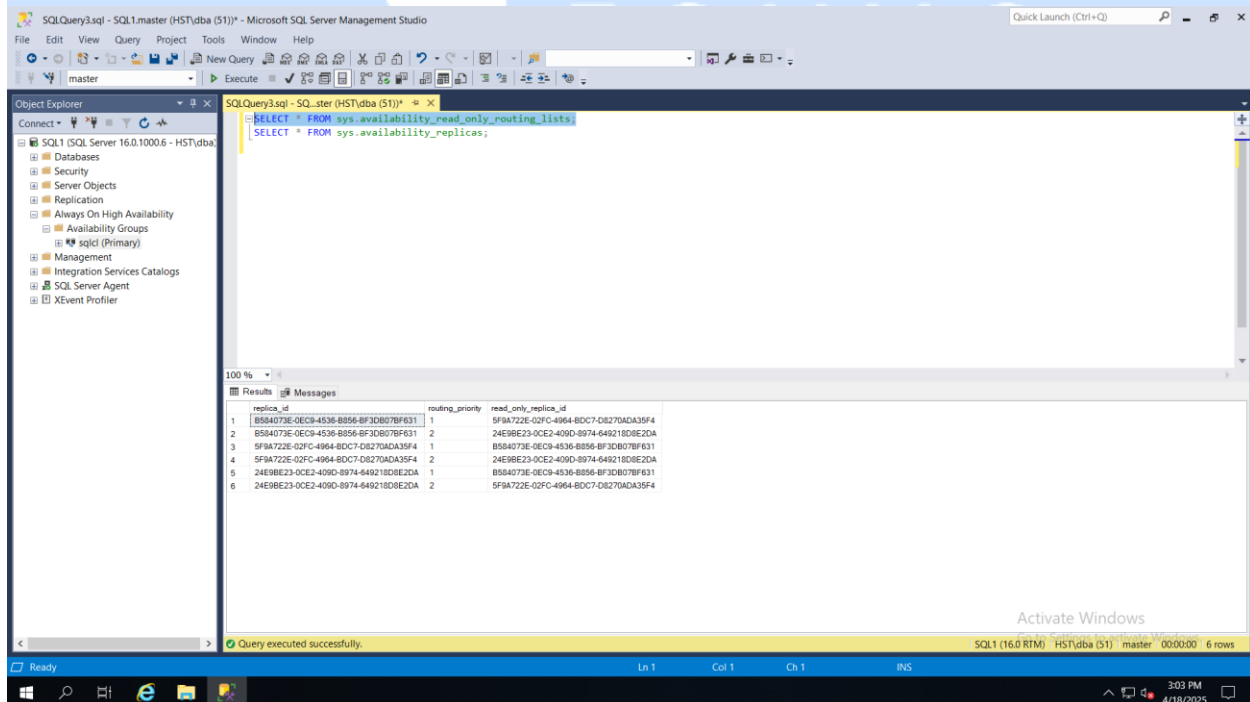
```
ALTER AVAILABILITY GROUP [SQLCL]
MODIFY REPLICA ON N'SQL3' WITH (SECONDARY_ROLE (ALLOW_CONNECTIONS = READ_ONLY));
```



How to Verify

SELECT * FROM sys.availability_read_only_routing_lists;

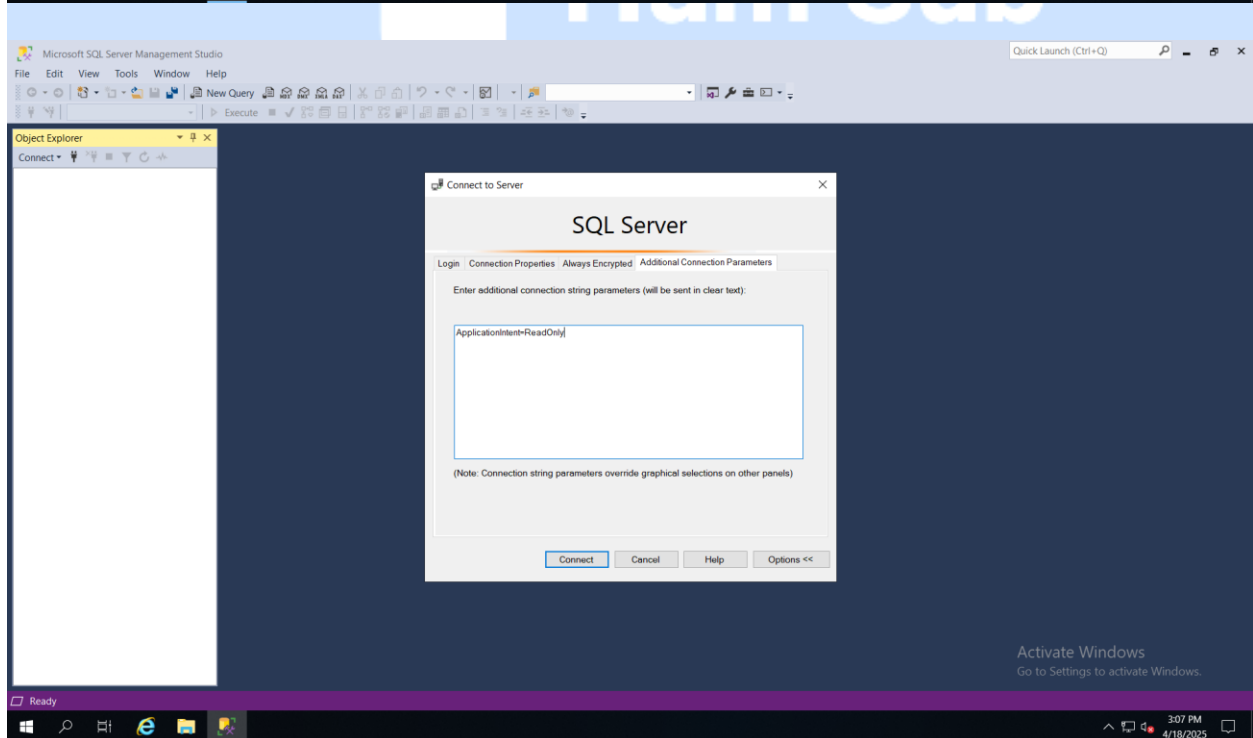
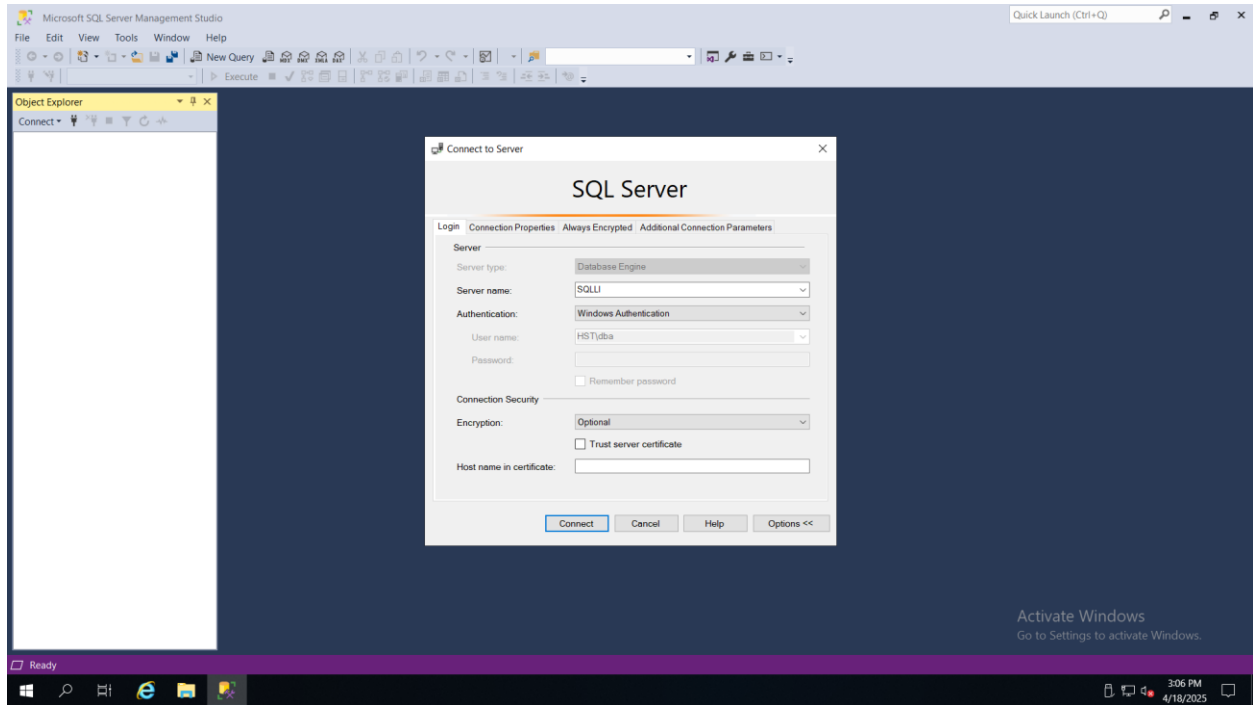
SELECT * FROM sys.availability_replicas;

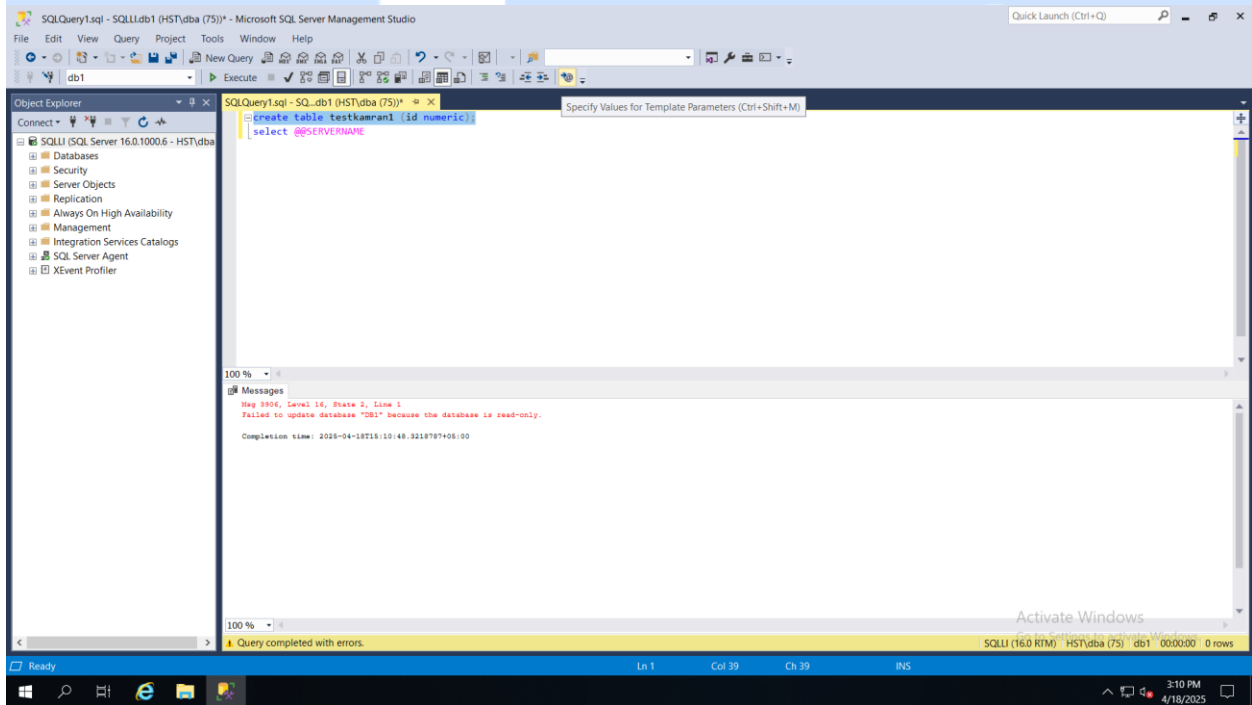
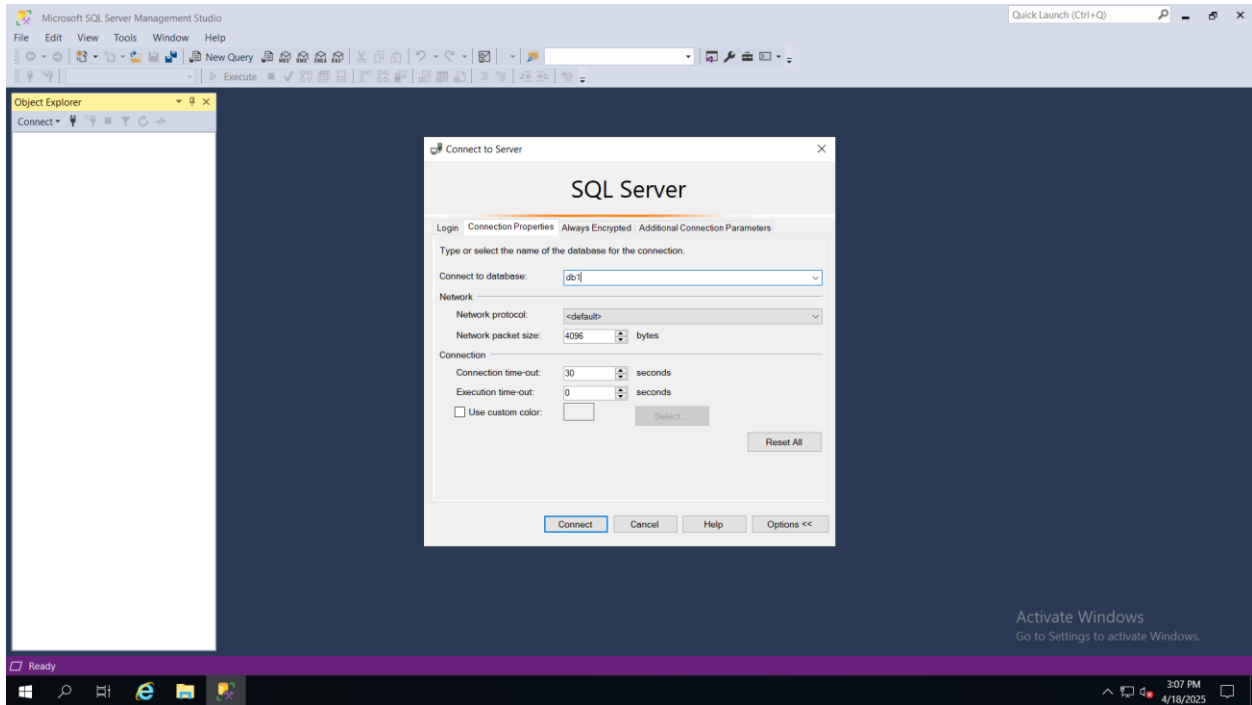


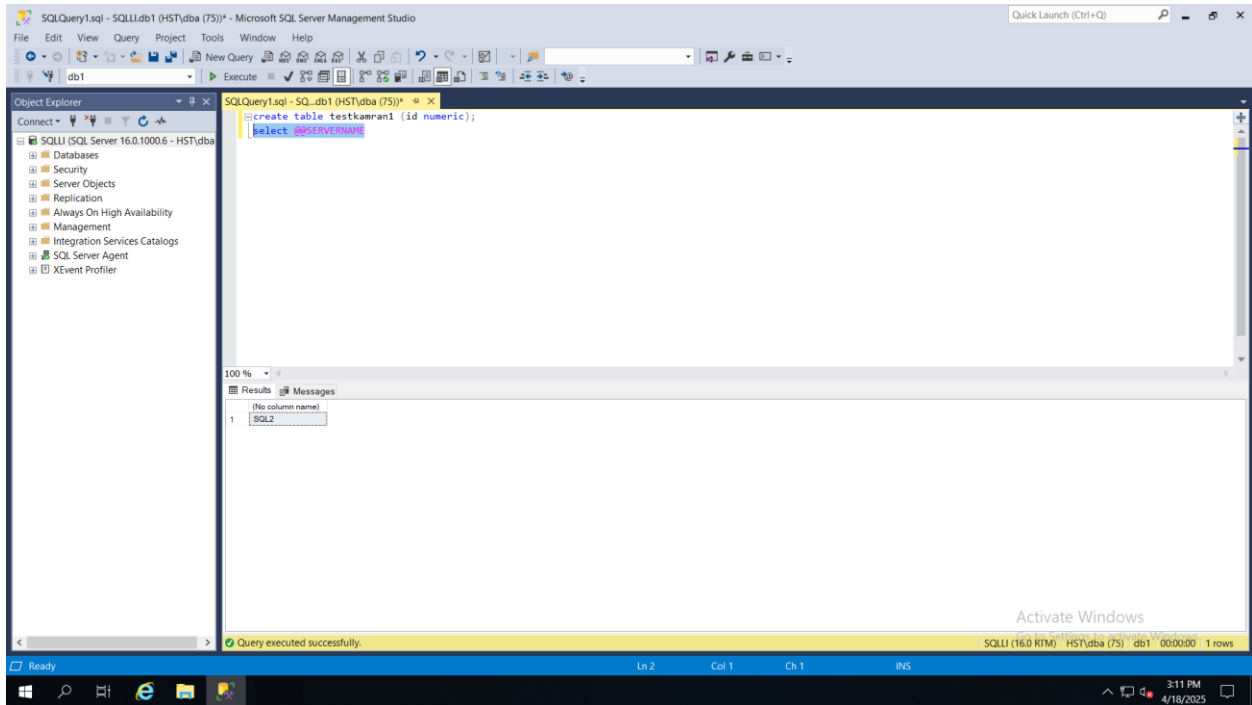


Connection String for Application

Server=SQLLI;Database=YourDB;ApplicationIntent=ReadOnly;MultiSubnetFailover=True;







Hum Sub
ECHNO