Previliges

# Two type of privileges :

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1. System level previliges

2. Object level previliges

1. system level privileges: sys can give this

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• desc dba\_sys\_privs

• select distinct privilege from dba\_sys\_privs;

# To check system level privileges user :

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• select privilege from dba\_sys\_privs where grantee=‘u1’;

• user permissions

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#Grant privileges: (from sys user)

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• grant create session to u1;

• Grant create table to u1;

• (user can connect to database but he cannot perform any operations )

• Grant create any index to u1;

• Grant create view to u1;

• grant create table to u1;]

• ( by giving this privilege user can create table)

# Admin option: sys level privs

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#To check weather user privilege has admin option or not:

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• select Privilege,ADMIN\_OPTION from dba\_sys\_privs where grantee=‘u1’;

#… give privilege to user with ADMIN OPTION:

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• Grant create view to u1 with admin option;

# Revoke Privileges:

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• revoke create session from u1;

• revoke create any index from u1;

• Any…………

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2. Object level privileges: (from schem)

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• desc dba\_tab\_privs

• select distinct privilege from dba\_tab\_privs;

• user giving permission to another user on its objects.

• u1 giving permission to u2

# To check object level privileges on user:

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• select OWNER,TABLE\_NAME,PRIVILEGE,GRANTOR,GRANTEE,GRANTABLE from dba\_tab\_privs where grantee=‘u2’;

Conn u1/u1 (OR) | grant select on

| u1.t1 to u2;(from

grant select on t1 to u2; | sys user)

[ select = read only privilege ] |

• grant all on t1 to u2;

• INSERT

• UPDATE

• INDEX

• ALTER

• SELECT

• DELETE

• FLASHBACK

• DEBUG

• QUERY REWRITE

• ON COMMIT REFRESH

• READ

• REFERENCES

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# grant all on t1 to u2 with grant option;

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• U2 can give permission to any other user on u1 objects

• Grant select on u1.t1 to u3;

Not only select we can give any

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# To check other schema data:

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• [Select count (\*) from u1.t1;] from u2. (Just show how many records)

• Select \* from u1.t1;( shows data)

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# Revoke object level privileges:

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• Revoke select on t1 from u2;

• Revoke all on t1 from u2;

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# grantable option :object level privs

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• taking privilege from another user and giving to another user.

• grant all on t1 to u2 with grant option;

• U2 can give grant on u1 objects to u3.

• Grant select on u1.t1 to u3;

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# To check object level privileges:

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• desc dba\_tab\_privs

Shows types of privileges

• select OWNER,TABLE\_NAME,PRIVILEGE,GRANTOR,GRANTEE,GRANTABLE from dba\_tab\_privs where grantee=‘u2’;

#From user end:

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• desc user\_tab\_privs

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# To check system level privileges user contain :

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• desc dba\_sys\_privs

Shows types of privileges

• select PRIVILEGE from dba\_sys\_privs where grantee= ‘u1’;

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# Roles : set of priviliges

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• instead of giving individual privileges we can create role and assign to user.

• It may contain system\_privileges or object\_privileges.

• desc dba\_roles

• select role from dba\_roles;

# To check privileges under role:

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• select privilege from dba\_sys\_privs where grantee=‘connect’;

# To check how many roles assign to user:

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• select granted\_role from dba\_role\_privs where grantee=‘u1’;

# To grant roles to user :

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• grant connect ,resource to u1;

# To create ROLE and assign privileges:

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• create role r1;

• grant create session to r1;

• Grant create table to r1;

• Grant create view to r1;

# To check role assigned to which user:

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• desc dba\_role\_privs

• select GRANTEE from dba\_role\_privs where GRANTED\_ROLE=‘R1’;

# To assign one ROLE to another ROLE:

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• grant r2 to r1;

• desc role\_role\_privs

• Select granted\_role from role\_role\_privs where ROLE=‘R1’;

# To drop role:

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• drop role r1;