Southern Alberta institute of Technology

Title: Create Users, Roles & Profiles

by

**Femi Adams**

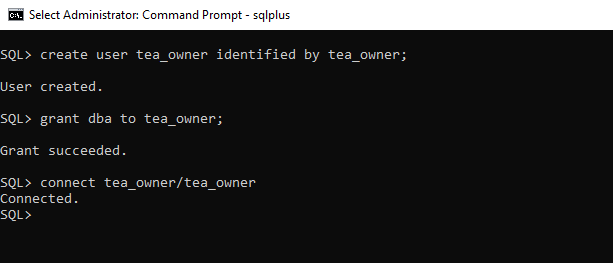
Winter 2023

**Dba User Creation**

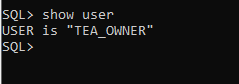
SQL> create user tea\_owner identified by tea\_owner;

SQL> grant dba to tea\_owner;

SQL> connect tea\_owner/tea\_owner



SQL> show user



**Create Role Scripts**

**Senior Agent Role**

**Script to show roles and privileges (select role, table\_name, privilege from role\_tab\_privs;)**

Senior agent has privilege on all tables. He can view and insert on employee table. One senior agent (commission specialist) has all privilege on commission table

SQL> create role senior\_agent;

SQL> grant connect to senior\_agent;

SQL> grant create session to senior\_agent;

SQL> grant all on booking to senior\_agent;

SQL> grant all on class to senior\_agent;

SQL> grant all on commission to senior\_agent;

SQL> grant all on company to senior\_agent;

SQL> grant all on customer to senior\_agent;

SQL> grant all on cust\_credit\_card to senior\_agent;

SQL> grant all on department to senior\_agent;

SQL> grant all on destination to senior\_agent;

SQL> grant select, insert on employee to senior\_agent;

SQL> grant all on itinerary to senior\_agent;

SQL> grant all on main\_supplier to senior\_agent;

SQL> grant all on payment to senior\_agent;

SQL> grant all on payment\_type to senior\_agent;

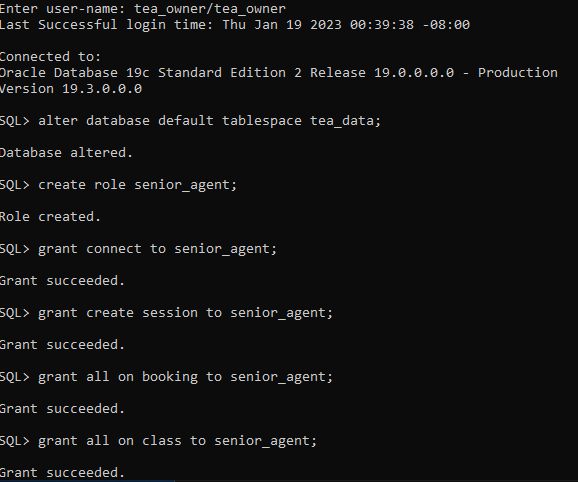
SQL> grant all on product to senior\_agent;

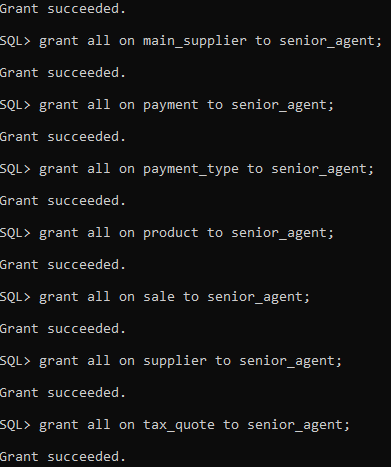
SQL> grant all on sale to senior\_agent;

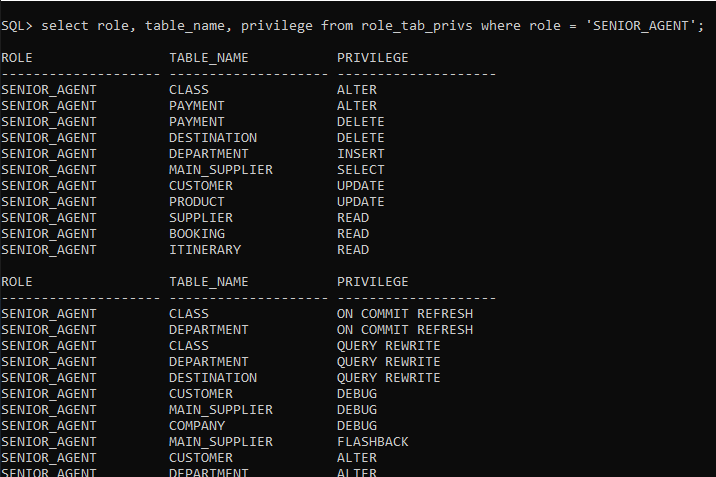
SQL> grant all on supplier to senior\_agent;

SQL> grant all on tax\_quote to senior\_agent;

SQL> select role, table\_name, privilege from role\_tab\_privs where role = 'SENIOR\_AGENT';







**Commission Specialist**

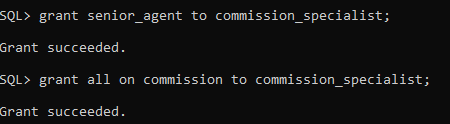
Has same authorization with senior agents but has all access on commission table

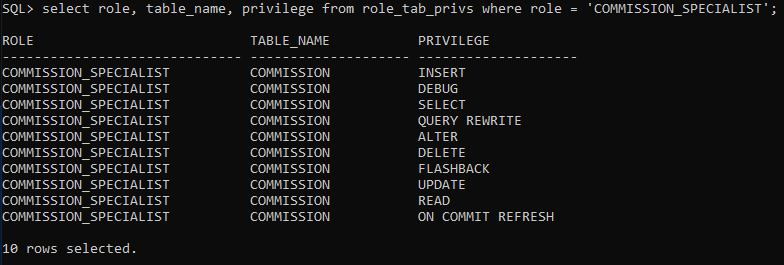
SQL> create role commission\_specialist;

SQL> grant senior\_agent to commission\_specialist;

SQL> grant all on commission to commission\_specialist;







**Intermediate Agent Role**

Intermediate agent has all access to most tables. He can only view, employee, commission, department.

SQL> create role intermediate\_agent;

SQL> grant connect to intermediate\_agent;

SQL> grant create session to intermediate\_agent;

SQL> grant all on booking to intermediate\_agent;

SQL> grant all on class to intermediate\_agent;

SQL> grant select, insert on commission to intermediate\_agent;

SQL> grant all on cust\_credit\_card to intermediate\_agent;

SQL> grant select on department to intermediate\_agent;

SQL> grant all on destination to intermediate\_agent;

SQL> grant select on employee to intermediate\_agent;

SQL> grant all on itinerary to intermediate\_agent;

SQL> grant all on main\_supplier to intermediate\_agent;

SQL> grant all on payment to intermediate\_agent;

SQL> grant all on payment\_type to intermediate\_agent;

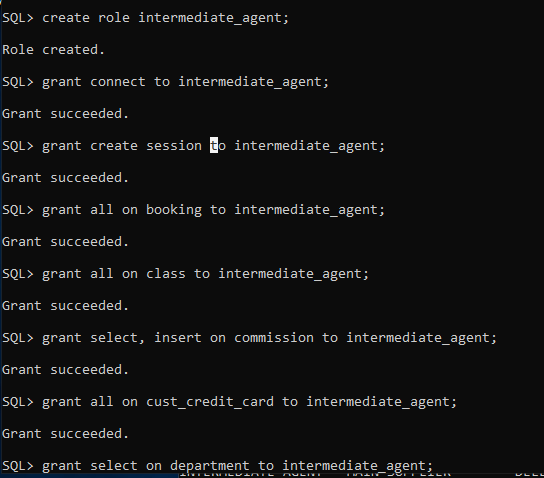
SQL> grant all on product to intermediate\_agent;

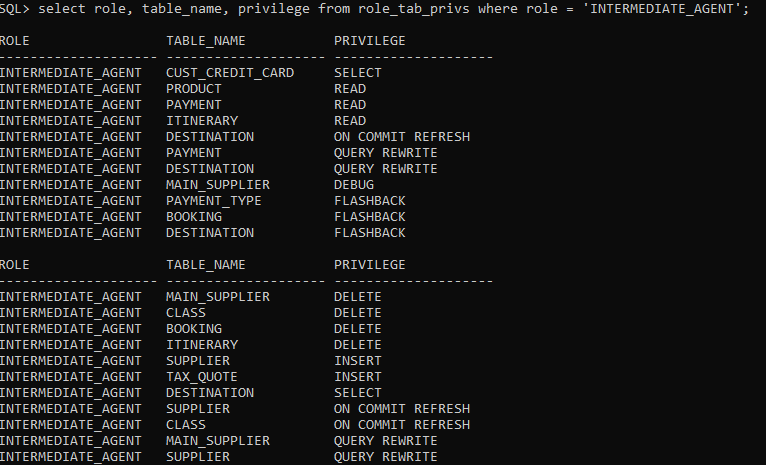
SQL> grant all on sale to intermediate\_agent;

SQL> grant all on supplier to intermediate\_agent;

SQL> grant select, insert on tax\_quote to intermediate\_agent;

SQL> select role, table\_name, privilege from role\_tab\_privs where role = 'INTERMEDIATE\_AGENT';





**Junior Agent Role**

Junior Agents can only view and insert on some tables and don’t have access to most tables.

SQL> create role junior\_agent;

SQL> grant create session to junior\_agent;

SQL> grant select, insert on booking to junior\_agent;

SQL> grant select, insert on class to junior\_agent;

SQL> grant select on company to junior\_agent;

SQL> grant select, insert on cust\_credit\_card to junior\_agent;

SQL> grant select, insert on itinerary to junior\_agent;

SQL> grant select on main\_supplier to junior\_agent;

SQL> grant select, insert on payment to junior\_agent;

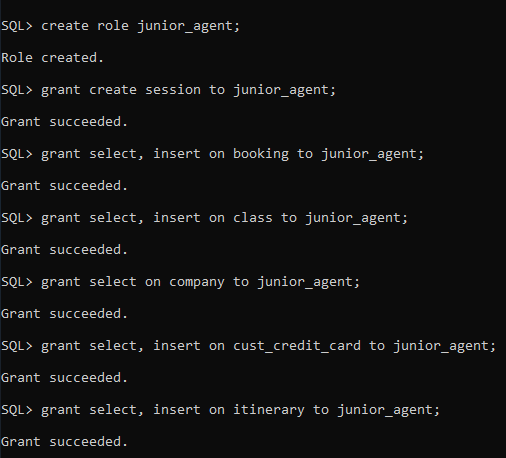
SQL> grant select on product to junior\_agent;

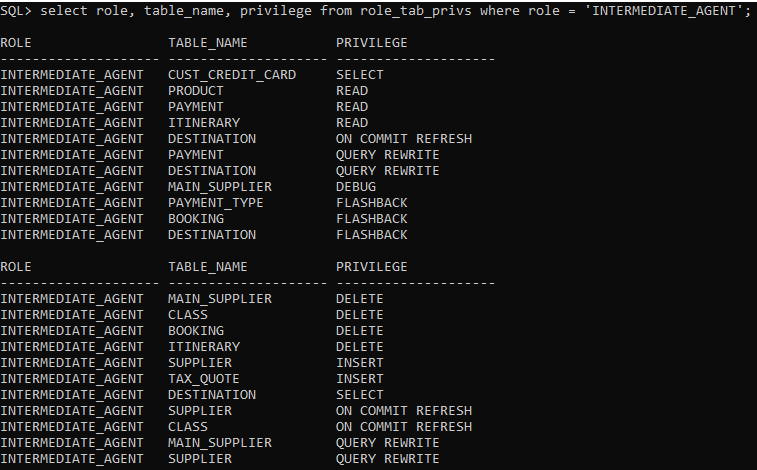
SQL> grant select, insert on sale to junior\_agent;

SQL> grant select on supplier to junior\_agent;

SQL> grant select on tax\_quote to junior\_agent;

SQL> select role, table\_name, privilege from role\_tab\_privs where role = 'INTERMEDIATE\_AGENT';





**TEA MANAGER ROLE**

Has access to all tables, can create tables, can create views, can back up tables, can create users, can flashback any table, lock any table etc.

SQL> create role manager;

SQL> grant connect, resource to manager;

SQL> grant create user to manager;

SQL> grant alter user to manager;

SQL> grant create view to manager;

SQL> grant create table to manager;

SQL> grant create any table to manager;

SQL> grant drop any table to manager;

SQL> grant insert any table to manager;

SQL> grant flashback any table to manager;

SQL> grant alter any table to manager;

SQL> grant lock any table to manager;

SQL> grant backup any table to manager;

SQL> grant create any directory to manager;

SQL> grant drop any directory to manager;

SQL> grant create profile to manager;

SQL> grant alter profile to manager;

SQL> grant drop profile to manager;

SQL> grant create role to manager;

SQL> grant alter any role to manager;

SQL> grant create any table to manager;

SQL> grant alter any table to manager;

SQL> grant drop any table to manager;

SQL> grant insert any table to manager;

SQL> grant select any table to manager;

SQL> grant update any table to manager;

SQL> grant delete any table to manager;

SQL> grant all on booking to manager;

SQL> grant all on class to manager;

SQL> grant all on commission to manager;

SQL> grant all on company to manager;

SQL> grant all on customer to manager;

SQL> grant all on cust\_credit\_card to manager;

SQL> grant all on department to manager;

SQL> grant all on destination to manager;

SQL> grant all on employee to manager;

SQL> grant all on itinerary to manager;

SQL> grant all on main\_supplier to manager;

SQL> grant all on payment to manager;

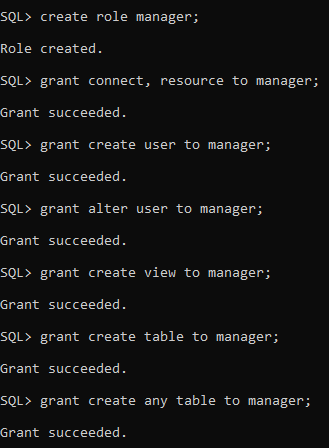
SQL> grant all on payment\_type to manager;

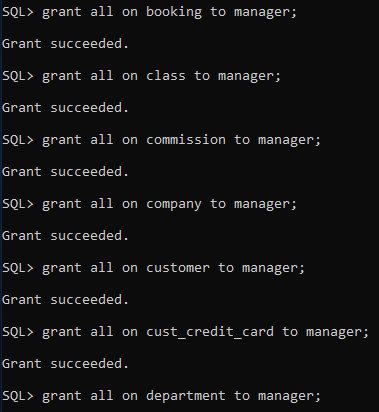
SQL> grant all on product to manager;

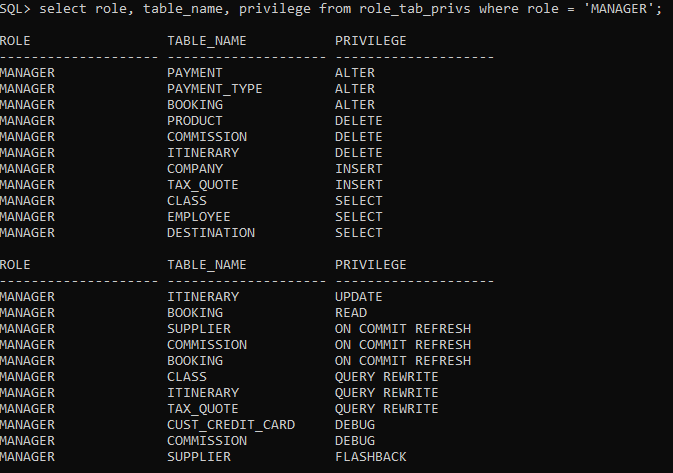
SQL> grant all on sale to manager;

SQL> grant all on supplier to manager;

SQL> grant all on tax\_quote to manager;





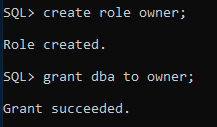


**Owner Role**

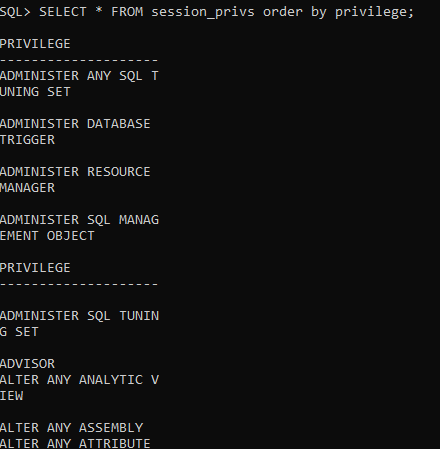
Has access to everything in the database

SQL> create role owner;

SQL> grant dba to owner;



SQL> SELECT \* FROM session\_privs order by privilege;



**User Creation & Grant Roles**

**Users**

SQL> create user aleshia identified by aleshia;

SQL> create user evan identified by evan;

SQL> create user france identified by france;

SQL> create user ulysses identified by ulysses;

SQL> create user Tyisha identified by Tyisha;

SQL> create user eric identified by eric;

SQL> create user marg identified by marg;

SQL> create user laquita identified by laquita;

SQL> create user laura identified by laura;

SQL> create user yuette identified by yuette;

SQL> create user fernanda identified by fernanda;

SQL> create user charlesetta identified by charlesetta;

SQL> create user corrinne identified by corrinne;

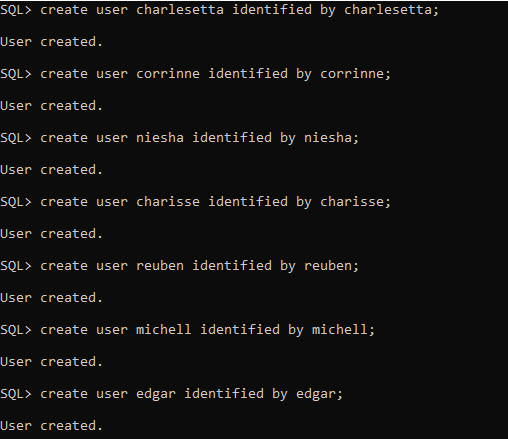
SQL> create user niesha identified by niesha;

SQL> create user charisse identified by charisse;

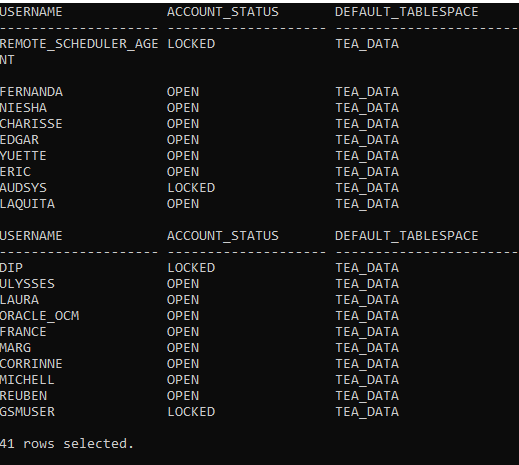
SQL> create user reuben identified by reuben;

SQL> create user michell identified by michell;

SQL> create user edgar identified by edgar;



SQL> select username, account\_status, default\_tablespace from dba\_users;



**Grant Role to Users**

**Junior agent to users**

SQL> grant junior\_agent to aleshia;

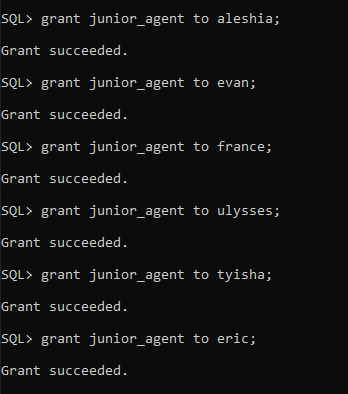
SQL> grant junior\_agent to evan;

SQL> grant junior\_agent to france;

SQL> grant junior\_agent to ulysses;

SQL> grant junior\_agent to tyisha;

SQL> grant junior\_agent to eric;



**Intermediate agent to users**

SQL> grant intermediate\_agent to marg;

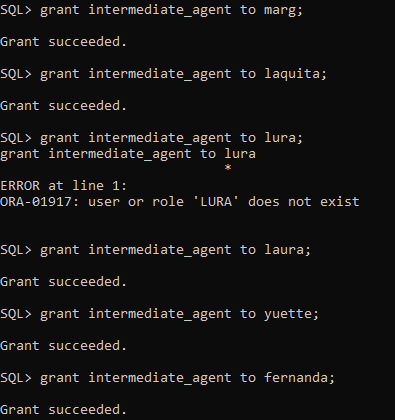
SQL> grant intermediate\_agent to laquita;

SQL> grant intermediate\_agent to laura;

SQL> grant intermediate\_agent to yuette;

SQL> grant intermediate\_agent to fernanda;

SQL> grant intermediate\_agent to charlesetta;

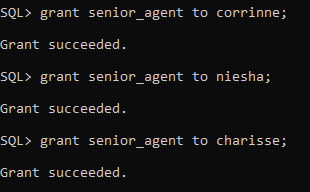


**Senior agent to users**

SQL> grant senior\_agent to corrinne;

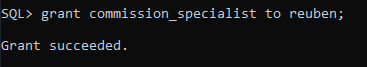
SQL> grant senior\_agent to niesha;

SQL> grant senior\_agent to charisse;



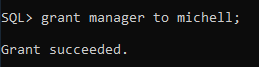
**Commission Specialist to user**

SQL> grant commission\_specialist to reuben;



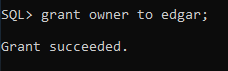
**Manager to user**

SQL> grant manager to michell;



**Owner to user**

SQL> grant owner to edgar;



**Profile Creation**

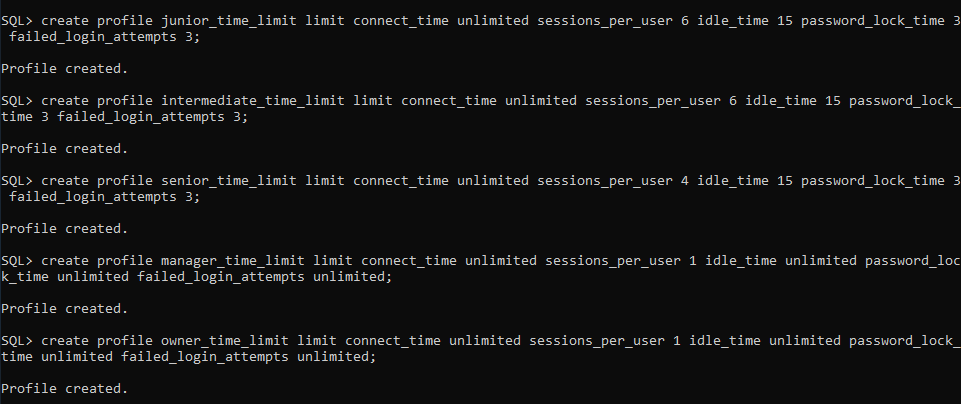
SQL> create profile junior\_time\_limit limit connect\_time unlimited sessions\_per\_user 6 idle\_time 15 password\_lock\_time 3 failed\_login\_attempts 3;

SQL> create profile intermediate\_time\_limit limit connect\_time unlimited sessions\_per\_user 6 idle\_time 15 password\_lock\_time 3 failed\_login\_attempts 3;

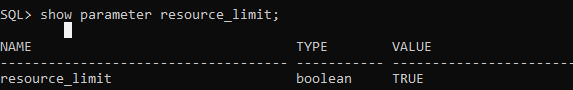
SQL> create profile senior\_time\_limit limit connect\_time unlimited sessions\_per\_user 4 idle\_time 15 password\_lock\_time 3 failed\_login\_attempts 3;

SQL> create profile manager\_time\_limit limit connect\_time unlimited sessions\_per\_user 1 idle\_time unlimited password\_lock\_time unlimited failed\_login\_attempts unlimited;

SQL> create profile owner\_time\_limit limit connect\_time unlimited sessions\_per\_user 1 idle\_time unlimited password\_lock\_time unlimited failed\_login\_attempts unlimited;



SQL> show parameter resource\_limit;



**Assign profile to users**

**Junior profile**

Junior time limit is assigned to junior agents

SQL> alter user aleshia profile junior\_time\_limit;

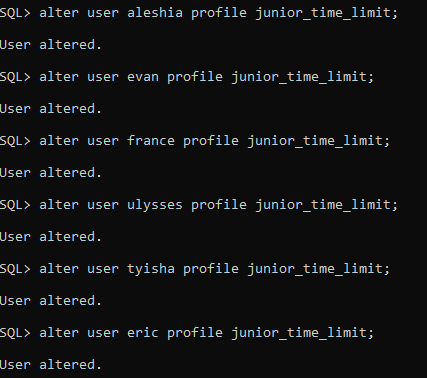
SQL> alter user evan profile junior\_time\_limit;

SQL> alter user france profile junior\_time\_limit;

SQL> alter user ulysses profile junior\_time\_limit;

SQL> alter user tyisha profile junior\_time\_limit;

SQL> alter user eric profile junior\_time\_limit;



**Intermediate profile**

Profile assigned to intermediate agents

SQL> alter user marg profile intermediate\_time\_limit;

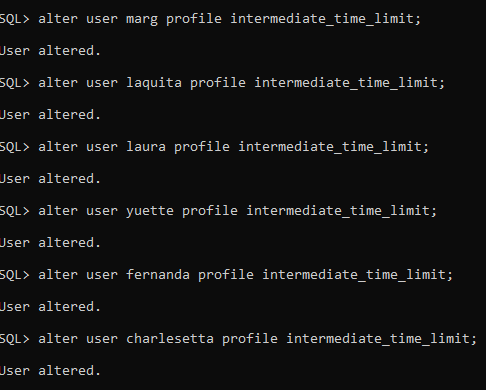
SQL> alter user laquita profile intermediate\_time\_limit;

SQL> alter user laura profile intermediate\_time\_limit;

SQL> alter user yuette profile intermediate\_time\_limit;

SQL> alter user fernanda profile intermediate\_time\_limit;

SQL> alter user charlesetta profile intermediate\_time\_limit;



**Senior profile**

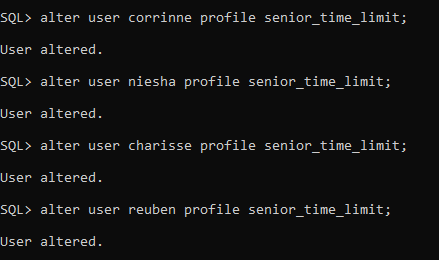
Profile assigned to senior agents

SQL> alter user corrinne profile senior\_time\_limit;

SQL> alter user niesha profile senior\_time\_limit;

SQL> alter user charisse profile senior\_time\_limit;

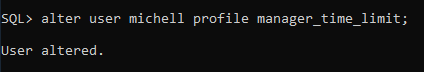
SQL> alter user reuben profile senior\_time\_limit;



**Manager profile**

Profile assigned to senior manager

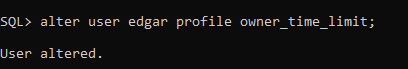
SQL> alter user michell profile manager\_time\_limit;



**Owner profile**

Profile assigned to senior owner

SQL> alter user edgar profile owner\_time\_limit;



(To check profile parameter values)

SELECT \* FROM DBA\_PROFILES WHERE PROFILE='&PROFILE\_NAME';

