Adrian Grimm

#7 Case Study

1. First, users for each department need to be created. As part of the user creation, a password expire and create session should be added, so they are able to log in to the database and also change their password. Each user will be assigned a role based on the requirements of their department. The privileges for each department’s role would be set up as follows:

* Criminal Records – Needs SELECT, ALTER, INSERT, and UPDATE privileges to all tables. This department’s employees should not have the ability to delete any records.
* Court Recording - These users need SELECT, INSERT, ALTER, and UPDATE privileges for the Appeals, Crimes, and Prob\_officers tables. They should not have the ability to delete records.
* Crimes Analysis – This department needs only SELECT privileges to the Crimes, Sentences, Crime\_charges, and Appeals. They do not need to update any information in any table.
* Data Officer – Requires SELECT, ALTER, INSERT, UPDATE, and DELETE privileges to all tables.

2. Commands for creation of users and roles:

USER CREATION:

CREATE USER CrimRec01

IDENTIFIED BY Password1

PASSWORD EXPIRE;

GRANT create session

TO CrimRec01;

USER CREATION:

CREATE USER CrimRec02

IDENTIFIED BY Password2

PASSWORD EXPIRE;

GRANT create session

TO CrimRec02;

USER CREATION:

CREATE USER CrimRec03

IDENTIFIED BY Password3

PASSWORD EXPIRE;

GRANT create session

TO CrimRec03;

USER CREATION:

CREATE USER CrimRec04

IDENTIFIED BY Password4

PASSWORD EXPIRE;

GRANT create session

TO CrimRec04;

USER CREATION:

CREATE USER CrimRec05

IDENTIFIED BY Password5

PASSWORD EXPIRE;

GRANT create session

TO CrimRec05;

USER CREATION:

CREATE USER CrimRec06

IDENTIFIED BY Password6

PASSWORD EXPIRE;

GRANT create session

TO CrimRec06;

USER CREATION:

CREATE USER CrimRec07

IDENTIFIED BY Password7

PASSWORD EXPIRE;

GRANT create session

TO CrimRec07;

USER CREATION:

CREATE USER CrimRec08

IDENTIFIED BY Password8

PASSWORD EXPIRE;

GRANT create session

TO CrimRec08;

USER CREATION:

CREATE USER CourtRec01

IDENTIFIED BY Password9

PASSWORD EXPIRE;

GRANT create session

TO CourtRec01;

USER CREATION:

CREATE USER CourtRec02

IDENTIFIED BY Password10

PASSWORD EXPIRE;

GRANT create session

TO CourtRec02;

USER CREATION:

CREATE USER CourtRec03

IDENTIFIED BY Password11

PASSWORD EXPIRE;

GRANT create session

TO CourtRec03;

USER CREATION:

CREATE USER CourtRec04

IDENTIFIED BY Password12

PASSWORD EXPIRE;

GRANT create session

TO CourtRec04;

USER CREATION:

CREATE USER CourtRec05

IDENTIFIED BY Password13

PASSWORD EXPIRE;

GRANT create session

TO CourtRec05;

USER CREATION:

CREATE USER CourtRec06

IDENTIFIED BY Password14

PASSWORD EXPIRE;

GRANT create session

TO CourtRec06;

USER CREATION:

CREATE USER CourtRec07

IDENTIFIED BY Password15

PASSWORD EXPIRE;

GRANT create session

TO CourtRec07;

USER CREATION:

CREATE USER CrimeAn01

IDENTIFIED BY Password16

PASSWORD EXPIRE;

GRANT create session

TO CrimeAn01;

USER CREATION:

CREATE USER CrimeAn02

IDENTIFIED BY Password17

PASSWORD EXPIRE;

GRANT create session

TO CrimeAn02;

USER CREATION:

CREATE USER CrimeAn03

IDENTIFIED BY Password18

PASSWORD EXPIRE;

GRANT create session

TO CrimeAn03;

USER CREATION:

CREATE USER CrimeAn04

IDENTIFIED BY Password19

PASSWORD EXPIRE;

GRANT create session

TO CrimeAn04;

USER CREATION:

CREATE USER DataOfc

IDENTIFIED BY Password20

PASSWORD EXPIRE;

GRANT create session

TO DataOfc;

CREATE ROLE criminal\_records;

GRANT SELECT, INSERT, UPDATE, ALTER

ON system.Aliases, system.Criminals, system.Crimes, system.Sentences, system.Prob\_officers, system.Crime\_charges, system.Crime\_officers, system.Officers, system.Crime\_codes, system.Appeals

TO criminal\_records;

CREATE ROLE court\_recording;

GRANT SELECT, INSERT, UPDATE, ALTER

ON system.Crimes, system.Appeals, system.Prob\_officers

TO court\_recording;

CREATE ROLE crimes\_analysis;

GRANT SELECT

ON system.Sentences, system.Crime\_charges, system.Appeals

TO crimes\_analysis;

CREATE ROLE data\_officer;

GRANT SELECT, INSERT, UPDATE, ALTER, DELETE, DROP

ON system.Aliases, system.Criminals, system.Crimes, system.Sentences, system.Prob\_officers, system.Crime\_charges, system.Crime\_officers, system.Officers, system.Crime\_codes, system.Appeals

WITH ADMIN OPTION

TO data\_officer;