**CIS 115**

**CH6 Case Study: City Jail**

1.

CREATE SEQUENCE criminals\_seq

START WITH 1018

NOCACHE

NOCYCLE;

CREATE SEQUENCE crimes\_seq

START WITH 10001

NOCACHE

NOCYCLE;

INSERT INTO criminals (criminal\_ID, last, first, street, city, state, zip, v\_status, p\_status)

VALUES (criminals\_seq.NEXTVAL, 'Capps','Johnny','45 Oakdale', 'Virgina Beach', 'VA','078575', 'N', 'N');

INSERT INTO crimes (crime\_ID, criminal\_ID, classification, date\_charged, status)

VALUES (crimes\_seq.NEXTVAL, criminals\_seq.CURRVAL, 'M', '10-MAY-18', 'CL');

2.

CREATE INDEX criminals\_last\_idx

ON criminals(last);

CREATE INDEX criminals\_street\_idx

ON criminals(street);

CREATE INDEX criminals\_phone\_idx

ON criminals(phone);

3.

Bitmap index is useful for column with low selectivity. Criminals/P\_status, Criminals/V\_status, Crimes/Classification, Crimes/Status, Crime\_charges/Charge\_status, Sentences/Type, Prob\_officers/Status, Officers/Status, Appeals/Status are the columns that are bitmap index appropriate.

4.

Synonyms could simplify object references for the City Jail database. If more than one users are accessing or developing applications to access the City Jail database objects, creating public synonyms will simplify object reference.