Author: Cedric Mulumba

Date: 02/29/16

Chap: 4

Program/Assignment: Create a list of constraint

Title: City Jail

|  |  |
| --- | --- |
|  | ALTER TABLE Aliases  ADD CONSTRAINT Aliases\_Alias\_ID\_pk PRIMARY KEY (Alias\_ID);  ALTER TABLE Aliases  ADD CONSTRAINT Aliases\_Criminal\_ID\_fk FOREIGN KEY (Criminal\_ID)  REFERENCES Criminals (Criminal\_ID); |
|  |  |
|  | ALTER TABLE Criminals  ADD CONSTRAINT Criminals\_Criminal\_ID\_pk PRIMARY KEY (Criminal\_ID);  ALTER TABLE Criminals  ADD CONSTRAINT Criminals\_Phone\_uk UNIQUE (Phone);  ALTER TABLE Criminals  MODIFY (Last CONSTRAINT Criminals\_Last\_nn NOT NULL);  ALTER TABLE Criminals  MODIFY (First CONSTRAINT Criminals\_First\_nn NOT NULL);  ALTER TABLE Criminals  MODIFY (Street CONSTRAINT Criminals\_Street\_nn NOT NULL);  ALTER TABLE Criminals  MODIFY (City CONSTRAINT Criminals\_City\_nn NOT NULL);  ALTER TABLE Criminals  MODIFY (State CONSTRAINT Criminals\_State\_nn NOT NULL);  ALTER TABLE Criminals  MODIFY (Zip CONSTRAINT Criminals\_Zip\_nn NOT NULL); |
|  |  |
|  | ALTER TABLE Crimes  ADD CONSTRAINT Crimes\_Crime\_ID\_pk PRIMARY KEY (Crime\_ID);  ALTER TABLE Crimes  ADD CONSTRAINT Crimes\_Hearing\_date\_ck CHECK (Hearing\_date < Appeal\_cut\_date);  ALTER TABLE Crimes  ADD CONSTRAINT Crimes\_Date\_charged\_ck CHECK (Appeal\_cut\_date <= Date\_charged);  ALTER TABLE Crimes  ADD CONSTRAINT Crimes\_Date\_Recorded\_ck CHECK ( Date\_charged <= Date\_Recorded);  ALTER TABLE Crimes  MODIFY (Status CONSTRAINT Crimes\_Status\_nn NOT NULL);  ALTER TABLE Crimes  ADD CONSTRAINT Crimes\_Criminal\_ID\_fk FOREIGN KEY (Criminal\_ID)  REFERENCES Criminals (Criminal\_ID); |
|  |  |
|  | ALTER TABLE Sentences  ADD CONSTRAINT Sentences\_Sentence\_ID\_pk PRIMARY KEY (Sentence\_ID);  ALTER TABLE Sentences  MODIFY (Type CONSTRAINT Sentences\_Type\_nn NOT NULL);  ALTER TABLE Sentences  MODIFY (Violations CONSTRAINT Sentences\_Violations\_nn NOT NULL);  ALTER TABLE Sentences  ADD CONSTRAINT Sentences\_Criminal\_ID\_fk FOREIGN KEY (Criminal\_ID)  REFERENCES Criminals (Criminal\_ID)  ADD CONSTRAINT Sentences\_Prob\_ID\_fk FOREIGN KEY (Prob\_ID)  REFERENCES Prob\_officers (Prob\_ID); |
|  |  |
|  | ALTER TABLE Prob\_officers  ADD CONSTRAINT Prob\_officers\_Prob\_ID\_pk PRIMARY KEY (Prob\_ID);  ALTER TABLE Prob\_officers  ADD CONSTRAINT Prob\_Officers\_Phone\_uk UNIQUE (Phone);  ALTER TABLE Prob\_officers  ADD CONSTRAINT Prob\_Officers\_Email\_uk UNIQUE (Email); |
|  |  |
|  | CREATE TABLE Crime\_charges  (Charge\_ID NUMBER(10,0),  Crime\_ID NUMBER(9,0),  Crime\_code NUMBER(3,0),  Charge\_status CHAR(2) NOT NULL,  Fine\_amount NUMBER(7,2) NOT NULL,  Court\_fee NUMBER(7,2) NOT NULL,  Amount\_paid NUMBER(7,2) NOT NULL,  Pay\_due\_date DATE DEFAULT SYSDATE,  CONSTRAINT Crime\_Charges\_Charge\_ID\_pk PRIMARY KEY (Charge\_ID),  CONSTRAINT Crime\_Charges\_Crime\_ID\_fk FOREIGN KEY (Crime\_ID)  REFERENCES Crimes (Crime\_ID),  CONSTRAINT Crime\_Charges\_Crime\_Code\_fk FOREIGN KEY (Crime\_Code)  REFERENCES Crime\_Codes (Crime\_Code)); |
|  |  |
|  | CREATE TABLE Crime\_officers  (Crime\_ID NUMBER(9,0),  Officer\_ID NUMBER(8,0),  CONSTRAINT Crime\_Officers\_Crime\_ID\_fk FOREIGN KEY (Crime\_ID)  REFERENCES Crimes (Crime\_ID),  CONSTRAINT Crime\_Officers\_Officer\_ID\_fk FOREIGN KEY (Officer\_ID)  REFERENCES Officers (Officer\_ID)); |
|  |  |
|  | ALTER TABLE Officers  ADD CONSTRAINT Officers\_Officer\_ID\_pk PRIMARY KEY (Officer\_ID);  ALTER TABLE Officers  ADD CONSTRAINT Officers\_Badge\_uk UNIQUE (Badge);  ALTER TABLE Officers  ADD CONSTRAINT Officers\_Phone\_uk UNIQUE (Phone);  ALTER TABLE Officers  MODIFY (Last CONSTRAINT Officers\_Last\_nn NOT NULL);  ALTER TABLE Officers  MODIFY (First CONSTRAINT Officers\_First\_nn NOT NULL);  ALTER TABLE Officers  MODIFY (Precinct CONSTRAINT Officers\_Precinct\_nn NOT NULL); |
|  |  |
|  | CREATE TABLE Appeals  (Appeal\_ID NUMBER(5),  Crime\_ID NUMBER(9,0),  Filing\_date DATE DEFAULT SYSDATE,  Hearing\_date DATE DEFAULT SYSDATE,  Status CHAR(1) DEFAULT 'P',  CONSTRAINT Appeals\_Appeal\_Id\_pk PRIMARY KEY (Appeal\_Id),  CONSTRAINT Appeals\_Crime\_Id\_fk FOREIGN KEY (Crime\_Id)  REFERENCES Crimes (Crime\_Id),  CONSTRAINT Appeals\_Filing\_date\_ck CHECK ( Filing\_date <= Hearing\_date)); |
|  |  |
|  | ALTER TABLE Crime\_Codes  ADD CONSTRAINT Crime\_Codes\_Crime\_Code\_ID\_pk PRIMARY KEY (Crime\_Code);  ALTER TABLE Crime\_Codes  MODIFY (Code\_description CONSTRAINT Crime\_Codes\_description\_nn NOT NULL); |
|  |  |