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CIS228

Chapter 4 City Jail exercise

I screenshot the Object browser’s list of constraints for each table because eunlike the last chapter there was no quick sql command to list the constraint types. Also, because of length limitations for the identifiers the constraints of Code\_description and the composite key of the Crime\_officers table both have abbreviated non-standard names. I hope this is alright.

**SQL Code:**

DROP TABLE Appeals;

DROP TABLE Crime\_officers;

DROP TABLE Crime\_charges;

ALTER TABLE Crime\_codes

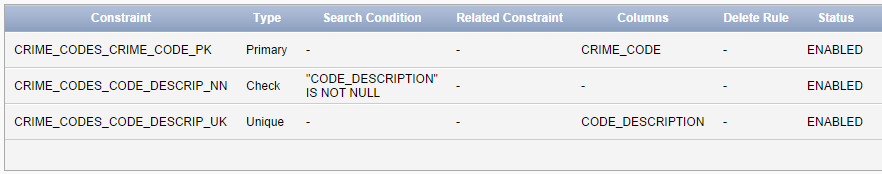
ADD CONSTRAINT Crime\_codes\_Crime\_code\_pk PRIMARY KEY(Crime\_code);

ALTER TABLE Crime\_codes

MODIFY (Code\_description CONSTRAINT Crime\_codes\_Code\_descrip\_nn NOT NULL);

ALTER TABLE Crime\_codes

ADD CONSTRAINT Crime\_codes\_Code\_descrip\_uk UNIQUE(Code\_description);



ALTER TABLE Criminals

ADD CONSTRAINT Criminals\_Criminal\_ID\_pk PRIMARY KEY(Criminal\_ID);



ALTER TABLE Officers

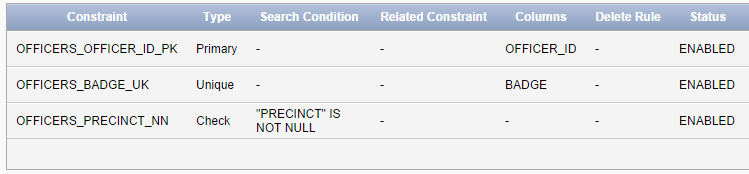
ADD CONSTRAINT Officers\_Officer\_ID\_pk PRIMARY KEY(Officer\_ID);

ALTER TABLE Officers

ADD CONSTRAINT Officers\_Badge\_uk UNIQUE(Badge);

ALTER TABLE Officers

MODIFY( Precinct CONSTRAINT Officers\_Precinct\_nn NOT NULL);

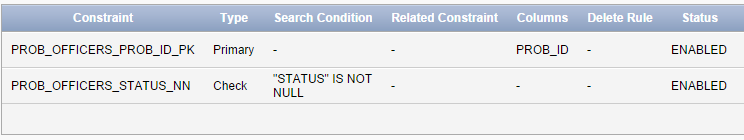


ALTER TABLE Prob\_officers

ADD CONSTRAINT Prob\_officers\_Prob\_ID\_pk PRIMARY KEY(Prob\_ID);

ALTER TABLE Prob\_officers

MODIFY (STATUS CONSTRAINT Prob\_officers\_Status\_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>Date\_charged);

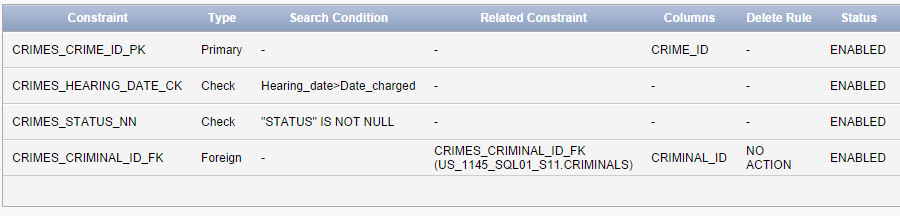
ALTER TABLE Crimes

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);



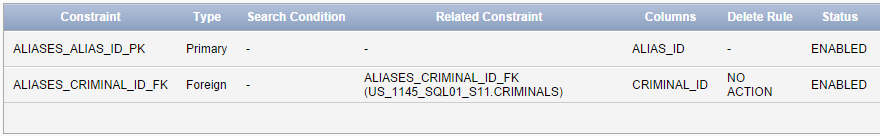
ALTER TABLE Aliases

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 Sentences

ADD CONSTRAINT Sentences\_Sentence\_ID\_pk PRIMARY KEY(Sentence\_ID);

ALTER TABLE Sentences

ADD CONSTRAINT Sentences\_End\_date\_ck CHECK(End\_date>Start\_date);

ALTER TABLE Sentences

MODIFY (Violations CONSTRAINT Sentences\_Violations\_nn NOT NULL);

ALTER TABLE Sentences

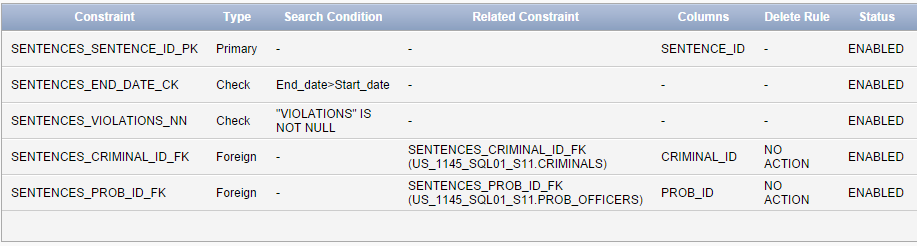
ADD CONSTRAINT Sentences\_Criminal\_ID\_fk FOREIGN KEY(Criminal\_ID)

REFERENCES Criminals(Criminal\_ID);

ALTER TABLE Sentences

ADD CONSTRAINT Sentences\_Prob\_ID\_fk FOREIGN KEY(Prob\_ID)

REFERENCES Prob\_officers(Prob\_ID);



CREATE TABLE Appeals

(Appeal\_ID NUMBER(5),

Crime\_ID Number(9,0),

Filing\_date DATE,

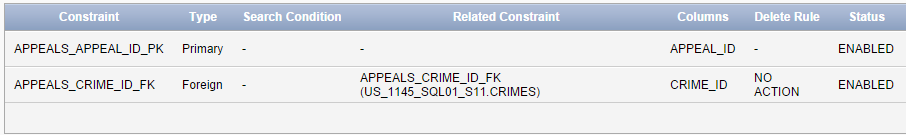
Hearing\_date DATE,

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));

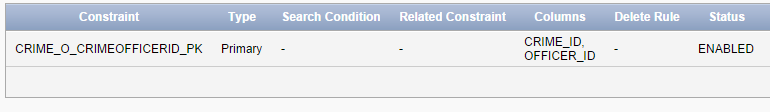


CREATE TABLE Crime\_officers

(Crime\_ID NUMBER(9,0),

Officer\_ID NUMBER(8,0),

CONSTRAINT Crime\_o\_CrimeOfficerID\_pk PRIMARY KEY(Crime\_ID, Officer\_ID));



CREATE TABLE Crime\_charges

(Charge\_ID NUMBER(10,0),

Crime\_ID NUMBER(9,0),

Crime\_code NUMBER(3,0),

Charge\_status CHAR(2),

Fine\_amount NUMBER(7,2),

Court\_fee NUMBER(7,2),

Amount\_paID NUMBER(7,2),

Pay\_due\_date DATE,

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));

