

PART 2 SCRIPT

CREATE TABLE Aliases

(Alias_ID NUMBER(6), Criminal_ID NUMBER(6,0), Alias VARCHAR2(10));

CREATE TABLE Criminals

(Criminal_ID NUMBER(6,0), Last VARCHAR2(15), First VARCHAR2(10), Street VARCHAR2(30), City VARCHAR2(20), State CHAR(2), Zip CHAR(5), Phone CHAR(10), V status CHAR(1) DEFAULT 'N', P status CHAR(1) DEFAULT 'N');

CREATE TABLE Crimes

(Crime_ID NUMBER(9,0), Criminal_ID NUMBER(6,0), Classification CHAR(1), Data_charged DATE, Status CHAR(2), Hearing_date DATE, Appeal_cut_date DATE);

CREATE TABLE Sentences

(Sentence_ID NUMBER(6), Criminal_ID NUMBER(6), Type CHAR(1), Prob_ID NUMBER(5), Start date DATE, End date DATE, Violations NUMBER(3));

CREATE TABLE Prob officers

(Prob_ID NUMBER(5), Last VARCHAR2(15), First VARCHAR2(10), Street VARCHAR2(30), City VARCHAR2(20), State CHAR(2), Zip CHAR(5), Phone CHAR(10), Email VARCHAR(30), Status CHAR(1) DEFAULT 'A');

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);

CREATE TABLE Crime officers

(Crime_ID NUMBER(9,0), Officer_ID NUMBER(8,0));

CREATE TABLE Officers

(Officer_ID NUMBER(8,0), Last VARCHAR2(15), First VARCHAR2(10), Precinct CHAR(4), Badge VARCHAR2(14), Phone CHAR(10), Status CHAR(1) DEFAULT 'A');

CREATE TABLE Appeals

(Appeal_ID NUMBER(5), Crime_ID NUMBER(9,0), Filing_date DATE, Hearing_date DATE, Status CHAR(1) DEFAULT 'P');

CREATE TABLE Crime_codes

(Crime_codes NUMBER(3,0), Code_description(30));

SECTION B

ALTER TABLE Crimes

MODIFY Classification DEFAULT 'U';

ALTER TABLE Crimes

ADD (Date_Recorded DATE DEFAULT SYSDATE);

ALTER TABLE Prob_officers

ADD (Pager# NUMBER(10));

ALTER TABLE Aliases

MODIFY (Alias VARCHAR2(20));

PART 3

Table Name	Column(s)	Contraint Type	Condition
Aliases	Alias	PK	-
Criminals	Criminal_ID	PK	-
Crimes	Crime_ID	PK	-
Sentences	Sentence_ID	PK	-
Officers	Officer_ID	PK	-
Crime_Codes	Crime_code	PK	-
Aliases	Criminal_ID	FK	Ref Criminals
Crimes	Criminal_ID	FK	Ref Criminals
Sentences	Criminal_ID	FK	Ref Criminals
Criminals	V_status	Check	Y or N
Criminals	P_status	Check	Y or N
Crimes	Classification	Check	F,M,O, or U
Crimes	Status	Check	CL, CA, or IA
Sentences	Туре	Check	J, H, or P
Prob_officers	Status	Check	A or I
Officers	Status	Check	A or I

DROP TABLE Appeals;

DROP TABLE Crime_officers;

DROP TABLE Crime_charges;

ALTER TABLE Aliases

ADD CONSTRAINT Aliases_id_pk PRIMARY KEY (Alias_ID);

ALTER TABLE Criminals

ADD CONSTRAINT Criminals_id_pk PRIMARY KEY (Criminal_ID);

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ALTER TABLE Crimes
 ADD CONSTRAINT Crimes id pk PRIMARY KEY (Crime ID);
ALTER TABLE Sentences
 ADD CONSTRAINT Sentences_id_pk PRIMARY KEY (Sentence_ID);
ALTER TABLE Officers
 ADD CONSTRAINT Officers_id_pk PRIMARY KEY (Officer_ID);
ALTER TABLE Crime codes
 ADD CONSTRAINT Crime_codes_pk PRIMARY KEY (Crime_code);
ALTER TABLE Aliases
 ADD CONSTRAINT Aliases_Criminal_fk FOREIGN KEY (Criminal_ID)
 REFERENCES Criminals(Criminal ID);
ALTER TABLE Crimes
 ADD CONSTRAINT Crimes_Criminal_fk FOREIGN KEY (Criminal_ID)
 REFERENCES Criminals(Criminal_ID);
ALTER TABLE Sentences
 ADD CONSTRAINT Sentences Criminal fk FOREIGN KEY (Criminal ID)
 REFERENCES Criminals(Criminal_ID);
ALTER TABLE Criminals
 ADD CONSTRAINT Criminals_Vstatus_ck CHECK (V_status IN('Y','N'));
ALTER TABLE Criminals
 ADD CONSTRAINT Criminals_Pstatus_ck CHECK (P_status IN('Y','N'));
ALTER TABLE Crimes
 ADD CONSTRAINT Classification ck CHECK (Classification IN('F', 'M', 'O', 'U'));
ALTER TABLE Crimes
 ADD CONSTRAINT Status_ck CHECK (Status IN('CL','CA','IA'));
ALTER TABLE Sentences
 ADD CONSTRAINT Sentences_ck CHECK (Type IN('J','H','P'));
ALTER TABLE Prob officers
 ADD CONSTRAINT Prob_ck CHECK (Status IN('A','I'));
ALTER TABLE Officers
 ADD CONSTRAINT Officers_ck CHECK (Status IN('A','I'));
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CREATE TABLE Appeals

(Appeal_ID NUMBER(5) PRIMARY KEY, Crime_ID NUMBER(9,0) REFERENCES Crimes (Crime_ID), Filing_date DATE, Hearing_date DATE, Status CHAR(1) DEFAULT 'P', CONSTRAINT Appeals_ck CHECK (Status IN('P','A','D')));

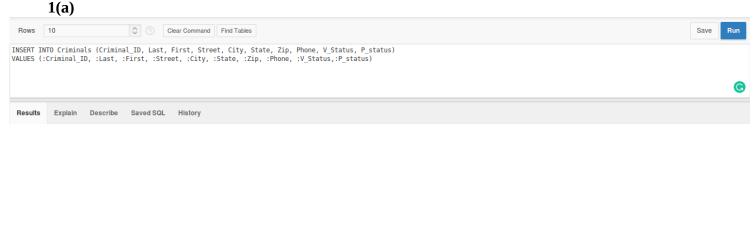
CREATE TABLE Crime officers

(Crime_ID NUMBER(9,0) REFERENCES Crimes (Crime_ID), Officer_ID NUMBER(8,0) PRIMARY KEY);

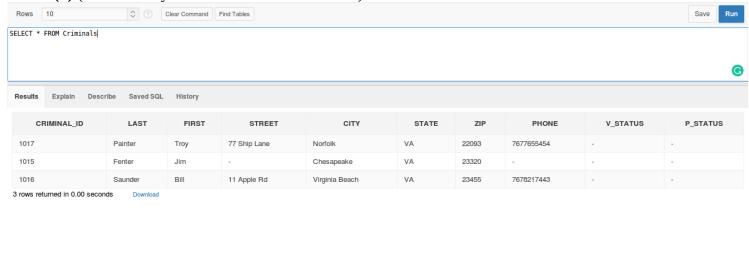
CREATE TABLE Crime_charges

(Charge_ID NUMBER(10,0) PRIMARY KEY, Crime_ID NUMBER(9,0) REFERENCES Crimes (Crime_ID), 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_ck CHECK (Charge_status IN('PD','GL','NG')));

PART 4



1(b) (Not sure why the default values didnt load.)



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1(c-g)

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ALTER TABLE Criminals ADD (Mail_flag CHAR(1));

UPDATE Criminals SET Mail_flag='Y';

UPDATE Criminals
SET Mail_flag='N' WHERE Street IS NULL;

UPDATE Criminals
SET Phone='7225659032' WHERE Criminal_ID=1016;

DELETE FROM Criminals WHERE Criminal_ID=1017;

2(a)

INSERT INTO Crimes (Crime_ID, Criminal_ID, Classification, Date_charged, Status) VALUES(100,1010,'M','15-JUL-09', 'PD');

Error: ORA-02290: check constraint (US_B672_SQL_S06.CRIMES_STATUS_CK) violated

Crime Status cannot be 'PD'. Just CL, CA, or IA

2(b)

INSERT INTO Crimes (Crime_ID, Criminal_ID, Classification, Date_charged, Status) VALUES(130,1016,'M', '15-JUL-09','PD');

Error: ORA-02290: check constraint (US_B672_SQL_S06.CRIMES_STATUS_CK) violated

Crime Status cannot be 'PD'

2(c)

INSERT INTO Crimes (Crime_ID, Criminal_ID, Classification, Date_charged, Status) VALUES(130,1016,'P', '15-JUL-09','CL');

Error: ORA-02290: check constraint (US_B672_SQL_S06.CRIMES_CLASS_CK) violated

Crime Class cannot be 'P'