*Edson Sanchez* CIT/ITI-2180 Foundations of Data and Database Management

**4-1**

CREATE TABLE store\_reps (

rep\_id NUMBER(5),

last VARCHAR2(15),

first VARCHAR2(15),

comm CHAR(1) DEFAULT 'Y',

CONSTRAINT storereps\_repid\_pk PRIMARY KEY ( rep\_id )

);

Table STORE\_REPS created.

**4-2**

ALTER TABLE store\_reps MODIFY (

first

CONSTRAINT storereps\_first\_nn NOT NULL,

last

CONSTRAINT storereps\_last\_nn NOT NULL

);

Table STORE\_REPS altered.

**4-3**

ALTER TABLE store\_reps

ADD CONSTRAINT storereps\_comm\_ck CHECK ( comm IN (

'Y',

'N'

) );

Table STORE\_REPS altered.

**4-4**

ALTER TABLE store\_reps ADD (

base\_salary NUMBER(7,2)

CONSTRAINT storereps\_basesalary\_ck CHECK ( base\_salary > 0 )

);

Table STORE\_REPS altered.

**4-5**

CREATE TABLE book\_stores (

store\_id NUMBER(8),

name VARCHAR2(30) NOT NULL,

contact VARCHAR2(30),

rep\_id VARCHAR2(5),

CONSTRAINT bookstores\_storeid\_pk PRIMARY KEY ( store\_id ),

CONSTRAINT bookstores\_name\_uk UNIQUE ( name )

);

Table BOOK\_STORES created.

**4-6**

ALTER TABLE book\_stores MODIFY (

rep\_id NUMBER(5)

);

ALTER TABLE book\_stores

ADD CONSTRAINT bookstores\_repid\_fk FOREIGN KEY ( rep\_id )

REFERENCES store\_reps ( rep\_id );

Table BOOK\_STORES altered.

Table BOOK\_STORES altered.

**4-7**

ALTER TABLE book\_stores DROP CONSTRAINT bookstores\_repid\_fk;

ALTER TABLE book\_stores

ADD CONSTRAINT bookstores\_repid\_fk FOREIGN KEY ( rep\_id )

REFERENCES store\_reps ( rep\_id )

ON DELETE CASCADE;

Table BOOK\_STORES altered.

Table BOOK\_STORES altered.

**4-8**

CREATE TABLE rep\_contacts (

store\_id NUMBER(8),

name NUMBER(5),

quarter CHAR(3),

rep\_id NUMBER(5),

CONSTRAINT repcontacts\_repidstoreidquarter\_pk PRIMARY KEY ( rep\_id,

store\_id,

quarter ),

CONSTRAINT repcontacts\_repid\_fk FOREIGN KEY ( rep\_id )

REFERENCES store\_reps ( rep\_id ),

CONSTRAINT repcontacts\_storepid\_fk FOREIGN KEY ( store\_id )

REFERENCES book\_stores ( store\_id )

);

Table REP\_CONTACTS created.

**4-9**

SELECT

constraint\_name,

constraint\_type,

search\_condition,

r\_constraint\_name

FROM

user\_constraints

WHERE

table\_name = 'STORE\_REPS';

CONSTRAINT\_NAME CONSTRAINT\_TYPE SEARCH\_CONDITION R\_CONSTRAINT\_NAME

STOREREPS\_REPID\_PK P

STOREREPS\_FIRST\_NN C "FIRST" IS NOT NULL

STOREREPS\_LAST\_NN C "LAST" IS NOT NULL

STOREREPS\_COMM\_CK C comm IN (

'Y',

'N'

)

STOREREPS\_BASESALARY\_CK C base\_salary > 0

**4-10**

ALTER TABLE store\_reps DISABLE CONSTRAINT storereps\_basesalary\_ck;

ALTER TABLE store\_reps ENABLE CONSTRAINT storereps\_basesalary\_ck;

Table STORE\_REPS altered.

Table STORE\_REPS altered.