*Victor Martinez* ITI-2180 Foundations of Data and Database Management

**Problem A**

CREATE TABLE store\_reps (

rep\_id NUMBER(5),

last VARCHAR2(15),

first VARCHAR2(10),

comm CHAR(1) DEFAULT 'Y'

CONSTRAINT store\_reps\_rep\_id\_pk PRIMARY KEY ( rep\_id )

);

Table STORE\_REPS created.

**Problem B**

ALTER TABLE store\_reps MODIFY (

first

CONSTRAINT store\_reps\_first\_nn NOT NULL,

last

CONSTRAINT store\_reps\_last\_nn NOT NULL

);

Table STORE\_REPS altered.

**Problem C**

ALTER TABLE store\_reps

ADD CONSTRAINT store\_reps\_comm\_ck CHECK ( comm IN ( 'Y', 'N' ) );

Table STORE\_REPS altered.

**Problem D**

ALTER TABLE store\_reps ADD base\_salary NUMBER(7, 2)

CONSTRAINT store\_reps\_base\_salary\_ck CHECK ( base\_salary > 0 );

Table STORE\_REPS altered.

**Problem E**

CREATE TABLE book\_stores (

store\_id NUMBER(8),

name VARCHAR2(30) NOT NULL,

contact VARCHAR2(30),

rep\_id VARCHAR2(5),

CONSTRAINT book\_stores\_store\_id\_pk PRIMARY KEY ( store\_id ),

CONSTRAINT book\_stores\_name\_uk UNIQUE ( name )

);

Table BOOK\_STORES created.

**Problem F**

ALTER TABLE book\_stores MODIFY

rep\_id NUMBER(5) NOT NULL;

Table BOOK\_STORES altered.

After I modified the ‘book\_stores’ column “rep\_id” to datatype number and addimg constraint not null it did not cause an error.

**Problem G**

create table rep\_contracts (

store\_id NUMBER(8),

name NUMBER(5),

quarter CHAR(3),

rep\_id NUMBER(5),

CONSTRAINT rep\_contracts\_rep\_id\_store\_id\_quarter\_pk PRIMARY KEY ( rep\_id,

store\_id,

quarter ),

constraint rep\_contracts\_store\_id\_fk FOREIGN KEY( store\_id) References book\_stores (store\_id),

constraint rep\_contracts\_rep\_id\_fk FOREIGN KEY(rep\_id) References store\_reps (rep\_id));

Table REP\_CONTRACTS created.

**Problem H**

SELECT

constraint\_name FROM user\_cons\_columns

WHERE

table\_name = 'STORE\_REPS';

CONSTRAINT\_NAME

--------------------------------------------------------------------------------------------------------------------------------

STORE\_REPS\_FIRST\_NN

STORE\_REPS\_LAST\_NN

STORE\_REPS\_COMM\_CK

STORE\_REPS\_BASE\_SALARY\_CK

STORE\_REPS\_REP\_ID\_PK

**Problem I**

ALTER TABLE tax ADD CONSTRAINT tax\_state\_pk PRIMARY KEY ( state );

Table TAX altered.

**Problem J**

ALTER TABLE orders ADD CONSTRAINT orders\_state\_fk FOREIGN KEY (shipstate) references tax (state);

ALTER TABLE customers ADD CONSTRAINT customers\_state\_fk FOREIGN KEY (state) references tax (state);

Table ORDERS altered.

Table CUSTOMERS altered.