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

**Problem A**

create sequence customers\_cust#\_seq

increment by 1

start with 1021

nocache

nocycle;

Sequence CUSTOMERS\_CUST#\_SEQ created.

**Problem B**

insert into customers (customer#,lastname, firstname, zip)

values (customers\_cust#\_seq.NEXTVAL,'SHOULDERS','FRANK', '23567');

1 row inserted.

**Problem C**

create sequence my\_first\_seq

increment by -3

start with 5

maxvalue 5

minvalue 0

nocycle;

Sequence MY\_FIRST\_SEQ created.

**Problem D**

select my\_first\_seq.NEXTVAL

from dual;

select my\_first\_seq.NEXTVAL

from dual;

select my\_first\_seq.NEXTVAL

from dual;

NEXTVAL

----------

5

NEXTVAL

----------

2

Error starting at line : 7 in command -

select my\_first\_seq.NEXTVAL

from dual

Error report -

ORA-08004: sequence MY\_FIRST\_SEQ.NEXTVAL goes below MINVALUE and cannot be instantiated

The error was caused because the next value, considering it increments by -3, would be less than the minimum value in the sequence.

**Problem E**

alter sequence my\_first\_seq

minvalue -1000;

Sequence MY\_FIRST\_SEQ altered.

**Problem F**

ALTER TABLE orders ADD (

ostatus CHAR(1) DEFAULT 'P',

CONSTRAINT orders\_ostatus\_ck CHECK ( ostatus IN ( 'P', 'B', 'C', 'S' ) )

);

Table ORDERS altered.

**Problem G**

create table OHISTORY (

oseq# NUMBER(4, 0) NOT NULL,

order# NUMBER(4, 0) NOT NULL,

ostatus CHAR(1) NOT NULL,

sdate DATE NOT NULL,

CONSTRAINT ohistory\_oseq#\_pk PRIMARY KEY ( oseq# ),

CONSTRAINT ohistory\_order#\_fk FOREIGN KEY ( order# )

REFERENCES orders ( order# ),

CONSTRAINT ohistory\_ostatus\_ck CHECK ( ostatus IN ( 'P', 'B', 'C', 'S' )));

Table OHISTORY created.

**Problem H**

CREATE SEQUENCE ohistory\_oseq#\_seq START WITH 1000;

Sequence OHISTORY\_OSEQ#\_SEQ created.

**Problem I**

CREATE INDEX ohistory\_idx ON

ohistory (

order#

);

Index OHISTORY\_IDX created.

**Problem J**

SELECT

table\_name,

index\_name,

column\_name

FROM

user\_ind\_columns

WHERE

table\_name = 'OHISTORY';

OHISTORY OHISTORY\_OSEQ#\_PK OSEQ#

OHISTORY OHISTORY\_IDX ORDER#