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

**6-1**

CREATE SEQUENCE customers\_customer#\_seq INCREMENT BY 1 START WITH 1021 NOMAXVALUE NOMINVALUE NOCACHE NOCYCLE;

Sequence CUSTOMERS\_CUSTOMER#\_SEQ created.

**6-2**

INSERT INTO customers (

customer#,

lastname,

firstname,

zip

) VALUES (

customers\_customer#\_seq.NEXTVAL,

'SHOULDERS',

'FRANK',

'23567'

);

1 row inserted.

**6-3**

CREATE SEQUENCE my\_first\_seq INCREMENT BY - 3 START WITH 5 MAXVALUE 5 MINVALUE 0 NOCYCLE;

Sequence MY\_FIRST\_SEQ created.

**6-4**

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 : 11 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 for the third SELECT statement appears because the value that would appear would be three less than 2 which would end up being -1. However, we set the MINVALUE to 0 so anything under 0 would throw an error as it violates that rule.

**6-5**

alter sequence my\_first\_seq

MINVALUE -1000;

Sequence MY\_FIRST\_SEQ altered.

**6-7 (notice that problem #6 is skipped)**

CREATE SYNONYM numgen FOR my\_first\_seq;

Synonym NUMGEN created.

**6-8**

SELECT

numgen.CURRVAL

FROM

dual;

CURRVAL

2

DROP SYNONYM numgen;

DROP SEQUENCE my\_first\_seq;

Synonym NUMGEN dropped.

Sequence MY\_FIRST\_SEQ dropped.

**6-9**

CREATE INDEX customers\_state\_idx ON

customers (

state

);

Index CUSTOMERS\_STATE\_IDX created.

SELECT

table\_name,

index\_name,

index\_type

FROM

user\_indexes

WHERE

table\_name = 'CUSTOMERS';

TABLE\_NAME INDEX\_NAME INDEX\_TYPE

CUSTOMERS CUSTOMERS\_CUSTOMER#\_PK NORMAL

CUSTOMERS CUSTOMERS\_STATE\_IDX NORMAL

DROP INDEX customers\_state\_idx;

Index CUSTOMERS\_STATE\_IDX dropped.

**6-10**

CREATE INDEX customers\_lastname\_idx ON

customers (

lastname

);

Index CUSTOMERS\_LASTNAME\_IDX created.

SELECT

table\_name,

index\_name,

index\_type

FROM

user\_indexes

WHERE

table\_name = 'CUSTOMERS';

TABLE\_NAME INDEX\_NAME INDEX\_TYPE

CUSTOMERS CUSTOMERS\_CUSTOMER#\_PK NORMAL

CUSTOMERS CUSTOMERS\_LASTNAME\_IDX NORMAL

DROP INDEX customers\_lastname\_idx;

Index CUSTOMERS\_LASTNAME\_IDX dropped.

**6-11**

CREATE INDEX orders\_daystoship\_idx ON

orders ( shipdate - orderdate );

Index ORDERS\_DAYSTOSHIP\_IDX created.