Adrian Grimm

Chapter 6 Hands On Assignment

1. CREATE SEQUENCE customers\_customer#\_seq

INCREMENT BY 1

START WITH 1021

NOCACHE

NOCYCLE;

2. INSERT INTO customers (customer#, lastname, firstname, zip)

VALUES (

customers\_customer#\_seq.NEXTVAL, 'Shoulders', 'Frank', 23567);

3. CREATE SEQUENCE MY\_FIRST\_SEQ

INCREMENT BY -3

START WITH 5

MAXVALUE 5

MINVALUE 0

NOCYCLE;

4. SELECT MY\_FIRST\_SEQ.NEXTVAL

FROM DUAL;

On the third SELECT entry, the error is caused because NEXTVAL would go below the value set as the MINVALUE.

5. ALTER SEQUENCE MY\_FIRST\_SEQ

MINVALUE -1000;

6. INSERT INTO email\_log (emaildate, customer#)

VALUES (SYSDATE, '1007');

|  |  |  |
| --- | --- | --- |
| 1 | 03-MAR-18 | 1007 |

INSERT INTO email\_log (emailid, emaildate, customer#)

VALUES (default, SYSDATE, '1008');

|  |  |  |
| --- | --- | --- |
| 2 | 03-MAR-18 | 1008 |

INSERT INTO email\_log (emailid, emaildate, customer#)

VALUES (25, SYSDATE, '1009');

"cannot insert into a generated always identity column"

The error is generated because the number value of the identity column cannot be over-written manually by a number.

7. CREATE SYNONYM NUMGEN

FOR MY\_FIRST\_SEQ;

8. SELECT NUMGEN.CURRVAL

FROM DUAL;

DROP SYNONYM NUMGEN;

DROP SEQUENCE MY\_FIRST\_SEQ;

9. CREATE BITMAP INDEX customers\_state\_idx

ON customers (state);

SELECT table\_name, index\_name, index\_type

FROM user\_indexes

WHERE table\_name = 'CUSTOMERS';

|  |  |  |
| --- | --- | --- |
| **TABLE\_NAME** | **INDEX\_NAME** | **INDEX\_TYPE** |
| CUSTOMERS | CUSTOMERS\_STATE\_IDX | BITMAP |

DROP INDEX customers\_state\_idx;

10. CREATE INDEX customers\_lastname\_idx

ON customers (LastName);

|  |  |  |
| --- | --- | --- |
| **TABLE\_NAME** | **INDEX\_NAME** | **INDEX\_TYPE** |
| CUSTOMERS | CUSTOMERS\_LASTNAME\_IDX | NORMAL |

DROP INDEX customers\_lastname\_idx;

11. CREATE INDEX ship\_days\_idx

ON orders (shipdate - orderdate);