

Learning objectives:

Oracle Database 2 Day Developer's Guide

Oracle Database SQL Language Reference

Introduction

```
[INCREMENT BY n]
[START WITH n]
[{MAXVALUE n | NOMAXVALUE}]
[{MINVALUE n | NOMINVALUE}]
[{CYCLE | NOCYCLE}]
[{CACHE n | NOCACHE}];
```

- Automatically generates unique numbers
- Is typically used to create a primary key value
- A sequence is not associated with any particular table or column.
- Speeds up the efficiency of accessing sequence values when cached in memory
- NEXTVAL returns the next available sequence value. It returns a unique value every time it is referenced, even for different users.
- CURRVAL obtains the current sequence value.

Task:

In the sample data provided for ORDERS table, the OrderNumber already in use are from 10100 to 10425, therefore the next order number should be from 10426 onwards.

Step 1 : Create a sequence for ORDERS

[illegible]

Step 2 : Test the sequence number

```
INSERT INTO ORDERS VALUES
(OrderNum Seq.nextval, followed by all other relevant data)
```

Create an order for customer 'Mini Classics'. Complete the order with your own relevant data.
(You need to insert data into ORDERS and OrderDetails tables).

```
insert into orders values(OrderNum_Seq.nextval, sysdate, '02-Aug-2021', NULL, 'In Process', NULL, 319);
```

Check your order to observe the running sequence.

Exercise

Based on the amended database since Practical 5, write a procedure to produce the following:

```
--Sample report output.
      1          2          3          4          5          6          7          8
1234567890123456789012345678901234567890123456789012345678901234567890
CUSTOMER'S MONTHLY ORDERS REPORT for the Month of [xxxxxxxx] [Year No.]
Date Printed: xx/xx/xxxx

Customer No      : [12345678901]
Customer Name    : [LastName,FirstName              ]
Contact No      : [xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]
Sales Rep No/Name : [12345678901-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]

1. Order Date   : dd/mm/yyyy
   FinalTotal   : RM999,999.99
   GST Amount   : RM99,999.99

2. Order Date   : dd/mm/yyyy
   FinalTotal   : RM999,999.99
   GST Amount   : RM99,999.99
.
.
.
      1          2          3          4          5          6          7          8
1234567890123456789012345678901234567890123456789012345678901234567890
Total Amount for the Month : RM9,999,999.99
Total GST payable          : RM999,999.99
=====

Customer No      : [12345678901]
Customer Name    : [LastName,FirstName              ]
Sales Rep No/Name : [12345678901-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]

1. Order Date   : dd/mm/yyyy
   FinalTotal   : RM999,999.99
   GST Amount   : RM99,999.99

2. Order Date   : dd/mm/yyyy
   FinalTotal   : RM999,999.99
   GST Amount   : RM99,999.99
.
.
.
Total Amount for the Month : RM9,999,999.99
Total GST payable          : RM999,999.99
=====
.
.
.
Total no. of customers for the Month: 9,999
Grand total spending from customers : RM9,999,999.99
Grand total of GST payable          : RM999,999.99
[End of Report]
```