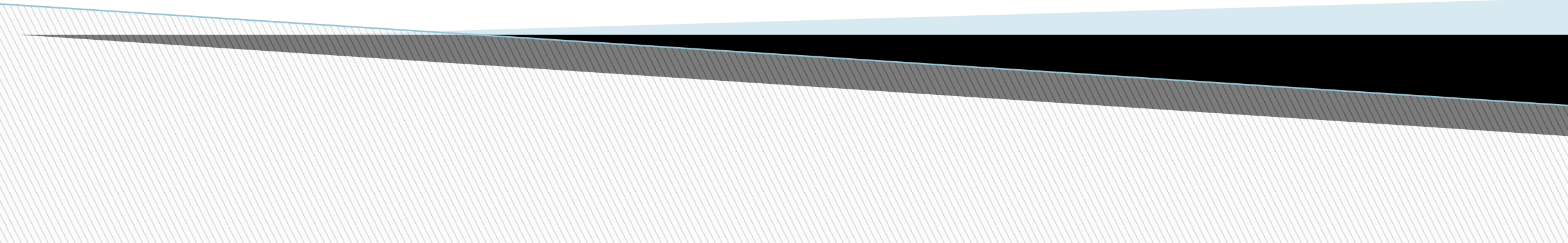


SEQUENCE

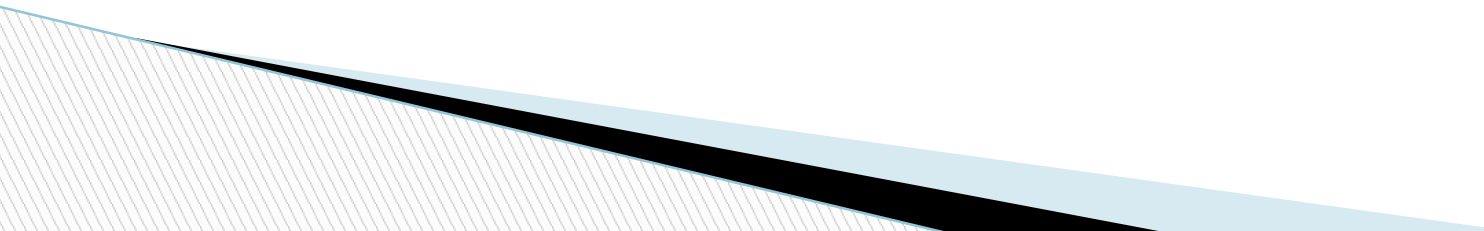


Khái niệm

- ▣ SEQUENCE là dãy số được tạo theo thứ tự tăng hoặc giảm theo yêu cầu người dùng
- ▣ Thường dùng trong insert dữ liệu

Tạo SEQUENCE

```
CREATE SEQUENCE [schema_name . ] sequence_name  
  [ AS [ built_in_integer_type | user-defined_integer_type ] ]  
  [ START WITH <constant> ]  
  [ INCREMENT BY <constant> ]  
  [ { MINVALUE [ <constant> ] } | { NO MINVALUE } ]  
  [ { MAXVALUE [ <constant> ] } | { NO MAXVALUE } ]  
  [ CYCLE | { NO CYCLE } ]  
  [ { CACHE [ <constant> ] } | { NO CACHE } ]  
  [ ; ]
```



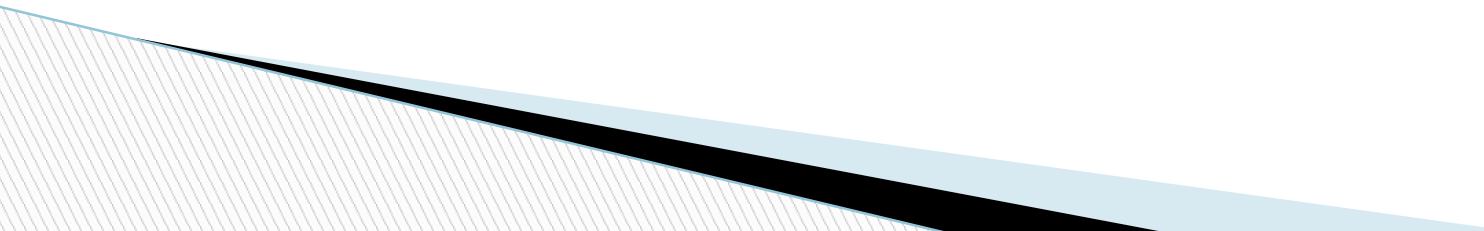
Ví dụ

- ▣ **Creating a sequence that increases by 1**

```
CREATE SEQUENCE CountBy1  
  START WITH 1  
  INCREMENT BY 1 ;  
GO
```

- ▣ **Creating a sequence that decreases by 1**

```
CREATE SEQUENCE CountByNeg1  
  START WITH 0  
  INCREMENT BY -1 ;  
GO
```



Ví dụ

▣ **Creating a sequence using all arguments**

```
CREATE SEQUENCE DecSeq  
  AS decimal(3,0)  
  START WITH 125  
  INCREMENT BY 25  
  MINVALUE 100  
  MAXVALUE 200  
  CYCLE  
;
```

Sử dụng NEXT VALUE FOR

NEXT VALUE FOR [database_name .] [schema_name .] sequence_name
[OVER (<over_order_by_clause>)]

Ví dụ

```
CREATE TABLE Test.MyTable
(  
    IDColumn NVARCHAR(25) PRIMARY KEY,  
    name VARCHAR(25) NOT NULL  
);  
GO
```

```
CREATE SEQUENCE Test.CounterSeq  
    AS INT  
    START WITH 1  
    INCREMENT BY 1 ;  
GO
```

```
ALTER TABLE Test.MyTable  
    ADD  
        DEFAULT N'AdvWorks_' +  
        CAST(NEXT VALUE FOR Test.CounterSeq AS NVARCHAR(20))  
        FOR IDColumn;  
GO
```

```
INSERT Test.MyTable (name)  
VALUES ('Larry') ;  
GO
```

```
SELECT * FROM Test.MyTable;  
GO
```