SEQUENCE :

A sequence is a database object which allows users to generate unique integer values. The sequence is incremented every time a sequence number is generated. The incrementation occurs even if the transaction rolls back, which may result in gaps between numbers.

CREATE SEQUENCE seq\_person  
MINVALUE 1  
START WITH 1  
INCREMENT BY 1  
CACHE 10;

INSERT INTO Persons (Personid,FirstName,LastName)  
VALUES (seq\_person.nextval,'Lars','Monsen');

AUTO\_INCREMENT :

CREATE TABLE Persons (  
    Personid int NOT NULL AUTO\_INCREMENT,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    PRIMARY KEY (Personid)  
);

SYNONYM :

A **synonym** is an alias or alternate name for a table, view, sequence, or other schema object. They are used mainly to make it easy for users to access database objects owned by other users

CREATE SYNONYM synonymname

FOR servername.databasename.schemaname.objectname;

GO

KEY :

* PRIMARY KEY -

CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    PRIMARY KEY (ID)  
);

CREATE TABLE Persons (  
    ID int NOT NULL PRIMARY KEY,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int  
);

ALTER TABLE Persons  
ADD PRIMARY KEY (ID);

* COMPOSITE PRIMARY KEY –

CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    CONSTRAINT PK\_Person PRIMARY KEY (ID,LastName)  
);

ALTER TABLE Persons  
ADD CONSTRAINT PK\_Person PRIMARY KEY (ID,LastName);