

<https://github.com/ManjDesp/sqlscripts.git>

* TO CREATE DATABASE

SYNTAX: CREATE DATABASE DATABASE_NAME;

EX: CREATE DATABASE testDB;

* TO DROP DATABASE

SYNTAX: DROP DATABASE DATABASE_NAME;

EG: DROP DATABASE testDB;

* BACKUP DATABASE: Statement is used in SQL Server to create a full back up of an existing SQL database.

SYNTAX: BACKUP DATABASE databasename TO DISK = 'filepath';

EG :1: BACKUP DATABASE testDB TO DISK = 'C:\MyDatabase';

ERROR: Msg 3201, Level 16, State 1, Line 1
 Cannot open backup device 'C:\MyDatabase'. Operating system error 5(Access is denied.).

 Msg 3013, Level 16, State 1, Line 1
 BACKUP DATABASE is terminating abnormally.

 Completion time: 2022-10-05T08:29:19.1712701+05:30

EG :2: BACKUP DATABASE testDB TO DISK = 'D:\RECYCLE BIN EXTRAS\CSHARP';

ERROR: Msg 3201, Level 16, State 1, Line 1
 Cannot open backup device 'D:\RECYCLE BIN EXTRAS\CSHARP'. Operating system error 5(Access is denied.).

 Msg 3013, Level 16, State 1, Line 1
 BACKUP DATABASE is terminating abnormally.

Completion time: 2022-10-05T08:32:54.4461566+05:30

* BACKUP WITH DIFFERENTIAL:

SYNTAX: BACKUP DATABASE databasename TO DISK = 'filepath'
 WITH DIFFERENTIAL;

EX: BACKUP DATABASE testDB TO DISK = 'D:\RECYCLE BIN
EXTRAS\CSHARP\MyDatabase\mydata.bak'
 WITH DIFFERENTIAL;

ERROR: Msg 3035, Level 16, State 1, Line 1
 Cannot perform a differential backup for database "testDB",
 because a current database backup does not exist.
 Perform a full database backup by reissuing BACKUP DATABASE, omitting the WITH
DIFFERENTIAL option.

 Msg 3013, Level 16, State 1, Line 1
 BACKUP DATABASE is terminating abnormally.

Completion time: 2022-10-05T08:38:24.0044830+05:30

POINTS: * A differential back up reduces the back up time (since only the changes are backed up)

* TO CREATE TABLE:

SYNTAX: CREATE TABLE table_name (
 column1 datatype,
 column2 datatype,
 column3 datatype,

);

COLUMN PARAMETERS:

Specify the names of the columns of the table.

DATATYPE PARAMETERS:

Specifies the type of data the column can hold.(e.g. varchar, integer, date, etc.)

```
EX:          CREATE TABLE testdata(
                testid  int,
                testna   varchar(50),
                tesla    varchar(50),
                address  varchar(200),
                city     varchar(30)
            );
```

* TO CREATE TABLE USING ANOTHER TABLE

```
SYNTAX:      CREATE TABLE new_table_name AS
                SELECT column1, column2,...
                FROM existing_table_name
                WHERE ....;
```

```
EX:          CREATE TABLE dbtestdata AS
                SELECT testna,city
                FROM testdata;
```

```
ERROR 1:      Msg 156, Level 15, State 1, Line 2 Incorrect syntax near the keyword 'SELECT'.
                Completion time: 2022-10-05T09:03:53.5574359+05:30
```

```
ERROR 2:      Incorrect Syntax near 'SELECT'.Expecting EDGE_TYPE or FILETABLE.
```

* TO DROP TABLE

```
SYNTAX:      DROP TABLE table_name;
```

```
EX:          DROP TABLE testdata;
```

* TO TRUNCATE TABLE

SYNTAX: TRUNCATE TABLE table_name;

EX: TRUNCATE TABLE testdata;

* TO INSERT INTO TABLE

* It is possible to write the INSERT INTO statement in two ways:

1: Specify both the column names and the values to be inserted:

```
* SYNTAX:                   INSERT INTO table_name (column1, column2, column3, ...)
                           VALUES (value1, value2, value3, ...);

* EX 1:                    INSERT INTO testdata(testid,testna,tesla,address,city)
                           VALUES (1,'Manoj','MJ','Thygarajnagar','Bangalore Rural');

                           INSERT INTO testdata(testid,testna,tesla,address,city)
                           VALUES (2,'Rahul','RJ','Shivajinagar','Bangalore Urban');

* EX 2:                    INSERT INTO testdata(testid,testna,city)
                           VALUES (3,'Ravikanth','Shimoga');

                           -- THE OTHER FIELDS WILL BE NULL.
```

2: If you are adding values for all the columns of the table, you do not need to specify the column names in the

SQL query. However, make sure the order of the values is in the same order as the columns in the table.

```
* SYNTAX:                   INSERT INTO table_name
                           VALUES (value1, value2, value3, ...);

* EX:                      INSERT INTO testdata
                           VALUES (1,'Manoj','MJ','Thygarajnagar','Bangalore Rural');
```

```
INSERT INTO testdata
VALUES (2,'Rahul','RJ','Shivajinagar','Bangalore Urban');
```

```
INSERT INTO testdata
VALUES (3,'Ravikanth','RA','Magadi Road','Tumkur');
```

```
INSERT INTO testdata
VALUES (4,'Raja','RAJ','Indian Gall Express','Mumbai');
```

```
INSERT INTO testdata
VALUES (5,'Sahegal','SAL','North ISI','Hyderbad');
```

* TO TRUNCATE TABLE: It is used to delete the data inside a table, but not the table itself.

SYNTAX: TRUNCATE TABLE table_name;

EX: TRUNCATE TABLE testdata;

* TO ALTER TABLE:

* It is used to add, delete, or modify columns in an existing table.

* It is also used to add and drop various constraints on an existing table.

1: ALTER TABLE - ADD Column

* SYNTAX: ALTER TABLE table_name ADD column_name datatype;

* EX : ALTER TABLE testdata ADD temail varchar(100);

2: ALTER TABLE - DROP Column

* SYNTAX: ALTER TABLE table_name
 DROP COLUMN column_name;

* EX : ALTER TABLE testdata

DROP COLUMN address;

3: ALTER TABLE - ALTER/MODIFY COLUMN : To change the data type of a column in a table :(THIS IS FOR MS-SQL)

* SYNTAX: ALTER TABLE table_name
 ALTER COLUMN column_name datatype;

* EX : ALTER TABLE testdata ADD tdate varchar(100);

 ALTER TABLE testdata
 ALTER COLUMN tdate date;

* TO CREATE CONSTRAINTS:

* SQL constraints are used to specify rules for the data in a table.

* Used to limit the type of data that can go into a table.This ensures the accuracy and reliability of the data in the table.

* If there is any violation between the constraint and the data action::The action is aborted.

* It can be column level or table level.

* Column level constraints: Apply to a column :: Table level constraints : Apply to the whole table.

* CONSTRAINTS:

1:NOT NULL: Ensures that a column cannot have a NULL value

2:UNIQUE : Ensures that all values in a column are different.

3:PRIMARY KEY: A combination of a NOT NULL and UNIQUE. Uniquely identifies each row in a table.

4:FOREIGN KEY: Prevents actions that would destroy links between tables.

5:CHECK: Ensures that the values in a column satisfies a specific condition.

6:DEFAULT: Sets a default value for a column if no value is specified.

7:CREATE INDEX: Used to create and retrieve data from the database very quickly.

* NOT NULL

* This enforces a field to always contain a value, which means that you cannot insert a new record, or update a record without adding a value to this field.

* EG:

```
CREATE TABLE testdata1(
    testid    int                NOT NULL,
    testna    varchar(50)        NOT NULL,
    tesla     varchar(50)        NOT NULL,
    address   varchar(200)       NOT NULL,
    city      varchar(30)
);
```

* NOT NULL ON ALTER TABLE - MS SQL

* SYNTAX:

```
ALTER TABLE table_name
    ALTER COLUMN column_name datatype constraint;
```

* EG:

```
ALTER TABLE testdata1
    ALTER COLUMN city varchar(30) NOT NULL;
```

* UNIQUE - MS SQL

* The UNIQUE constraint ensures that all values in a column are different.

* Both the UNIQUE and PRIMARY KEY constraints provide a guarantee for uniqueness for a column or set of columns.

* A PRIMARY KEY constraint automatically has a UNIQUE constraint.

* However, you can have many UNIQUE constraints per table, but only one PRIMARY KEY constraint per table.

```

* EG:          CREATE TABLE testdata1(
                  testid  int                NOT NULL          UNIQUE,
                  testna  varchar(50)        NOT NULL          UNIQUE,
                  tesla   varchar(50),
                  address varchar(200),
                  city    varchar(30)
                );
-----
* CASE1:       INSERT INTO testdata1
                  VALUES (1,'Manoj','MJ','Thygarajnagar','Bangalore Rural');

                  INSERT INTO testdata1
                  VALUES (1,'Rohan','RJ','Shivajinagar','Bangalore Urban');

* ERROR:       (1 row affected)
                  Msg 2627, Level 14, State 1, Line 4
                  Violation of UNIQUE KEY constraint 'UQ__testdata__A29AFFE1FF796156'.
                  Cannot insert duplicate key in object 'dbo.testdata1'. The duplicate key
value is (1).

                  The statement has been terminated.

                  Completion time: 2022-10-05T11:36:24.9452812+05:30
-----
* CASE2:       INSERT INTO testdata1
                  VALUES (2,'Manoj','MJ','Thygarajnagar','Bangalore Rural');

                  INSERT INTO testdata1
                  VALUES (3,'Manoj','RJ','Shivajinagar','Bangalore Urban');

* ERROR1:      Msg 2627, Level 14, State 1, Line 1
                  Violation of UNIQUE KEY constraint 'UQ__testdata__A29B42544C80F823'.
                  Cannot insert duplicate key in object 'dbo.testdata1'. The duplicate key
value is (Manoj).

                  The statement has been terminated.
                  Msg 2627, Level 14, State 1, Line 4
                  Violation of UNIQUE KEY constraint 'UQ__testdata__A29B42544C80F823'.
                  Cannot insert duplicate key in object 'dbo.testdata1'. The duplicate key
value is (Manoj).

```


The statement has been terminated.

Completion time: 2022-10-05T11:43:38.0840025+05:30

```
-----
* CASE3:          INSERT INTO testdata1
                   VALUES (2,'Manya','MJ','Thygarajnagar','Bangalore Rural');

                   INSERT INTO testdata1
                   VALUES (3,'Manya','RJ','Shivajinagar','Bangalore Urban');
```

```
* ERROR2:          (1 row affected)
                   Msg 2627, Level 14, State 1, Line 4
                   Violation of UNIQUE KEY constraint 'UQ__testdata__A29B42544C80F823'.
                   Cannot insert duplicate key in object 'dbo.testdata1'. The duplicate key
value is (Manya).

                   The statement has been terminated.
```

Completion time: 2022-10-05T11:47:08.8799464+05:30

```
-----
* UNIQUE - To name a UNIQUE constraint, and to define a UNIQUE constraint on multiple columns,
-----
```

```
* SYNTAX:          CONSTRAINT constraint_name UNIQUE (col1,col2,col3....coln)
```

Here constraint_name is not type, but to name UNIQUE constraint.

```
* EG:              CREATE TABLE testdata1(
                   testid          int                                NOT NULL,
                   testna          varchar(50)                      NOT NULL,
                   tesla           varchar(50),
                   address         varchar(200),
                   age             int,
                   CONSTRAINT idna UNIQUE (testid,testna)
                   );
```

```
-----
* UNIQUE CONSTRAINT ON ALTER TABLE
-----
```

* SYNTAX: ALTER TABLE table_name ADD UNIQUE (colname);

* EG: ALTER TABLE testdata1 ADD UNIQUE(tesla);

* UNIQUE CONSTRAINT - To name a UNIQUE constraint, and to define a UNIQUE constraint on multiple column

* SYNTAX: ALTER TABLE table_name ADD CONSTRAINT constraint_name UNIQUE (col1,col2,..coln);

* EG: ALTER TABLE testdata1 ADD CONSTRAINT myc1 UNIQUE(testid,testna);

 Here constraint_name is not type, but to name UNIQUE constraint.

* DROP UNIQUE CONSTRAINT

* SYNTAX: ALTER TABLE table_name
 DROP CONSTRAINT constraint_name;

* EG: ALTER TABLE testdata1
 DROP CONSTRAINT myc1;

 Here constraint_name is not type, but to name UNIQUE constraint.

* PRIMARY KEY

* The PRIMARY KEY constraint uniquely identifies each record in a table.

* Primary keys must contain UNIQUE values, and cannot contain NULL values.

* A table can have only ONE primary key and in the table, this primary key can consist of single or multiple columns (fields).

* PRIMARY KEY ON CREATE TABLE

```
* EG:          CREATE TABLE testdata1(
                  testid      int                NOT NULL      PRIMARY KEY,
                  testna      varchar(50)        NOT NULL,
                  tesla       varchar(50),
                  address     varchar(200),
                  age          int,
                );
```

* PRIMARY KEY - To allow naming of a PRIMARY KEY constraint, and for defining a PRIMARY KEY constraint on multiple columns.

```
* SYNTAX:      CONSTRAINT constraint_name PRIMARY KEY (col1,col2,col3....coln)

                Here constraint_name is not type, but to name PRIMARY KEY constraint.
```

```
* EG:          CREATE TABLE testdata1(
                  testid      int                NOT NULL,
                  testna      varchar(50)        NOT NULL,
                  tesla       varchar(50),
                  address     varchar(200),
                  age          int,
                  CONSTRAINT  pk_test PRIMARY KEY (testid,testna)
                );
```

*NOTE: In the example above there is only ONE PRIMARY KEY (pk_test).

However, the VALUE of the primary key is made up of TWO COLUMNS (testid + testna).

* PRIMARY KEY CONSTRAINT ON ALTER TABLE

```
* REFERENCE:   CREATE TABLE testdata1(
                  testid      int                NOT NULL,
                  testna      varchar(50)        NOT NULL,
```

```

        tesla          varchar(50),
        address        varchar(200),
        age            int,
        somali          varchar(20),
        mya             varchar(30),
        datadat         date,
        mysla           int
    );

```

```

* SYNTAX:          ALTER TABLE table_name  ADD PRIMARY KEY (colname);

```

```

* EG:              ALTER TABLE testdata1 ADD PRIMARY KEY(testid);

```

```

* PRIMARY KEY CONSTRAINT - To name a PRIMARY KEY constraint, and to define a PRIMARY KEY constraint on
                           multiple column

```

```

* SYNTAX:          ALTER TABLE table_name  ADD CONSTRAINT  constraint_name PRIMARY KEY
(col1,col2,..coln);

```

```

* EG:              ALTER TABLE testdata1  ADD CONSTRAINT  mypk_nage PRIMARY KEY (testid,testna);

```

Here constraint_name is not type, but to name PRIMARY KEY constraint.

```

* NOTE:            If you use ALTER TABLE to add a primary key, the primary key column(s) must have
been declared to   not contain NULL values (when the table was first created).

```

```

* DROP PRIMARY KEY CONSTRAINT

```

```

* SYNTAX:          ALTER TABLE table_name
                   DROP CONSTRAINT constraint_name;

```

```

* EG:              ALTER TABLE testdata1

```

Here constraint_name is not type, but to name PRIMARY KEY constraint.

- * FOREIGN KEY constraint is used to prevent actions that would destroy links between tables.
- * A FOREIGN KEY is a field (or collection of fields) in one table, that refers to the PRIMARY KEY in another table.
- * The table with the foreign key is called the Child table.
- * The table with the primary key is called the Referenced or Parent table.

* REFERENCE:

```
* TABLE2:                                CREATE TABLE testdata1(
                                           testid                                int                                NOT
NULL      PRIMARY KEY,
                                           testna                                varchar(50)                                NOT NULL,
                                           tesla                                varchar(50),
                                           address                                varchar(200),
                                           age                                int,
                                           somali                                varchar(20),
```

```

                                mya          varchar(30),
                                datadat      date,
                                mysla       int
                                );

```

 * FOREIGN KEY - To allow naming of a FOREIGN KEY constraint, and for defining a FOREIGN KEY constraint on multiple columns.

* CONCEPTS:

 * SYNTAX: CREATE TABLE childTable
 (
 column_1 datatype [NULL |NOT NULL],
 column_2 datatype [NULL |NOT NULL],
 ...

 CONSTRAINT constraint_name
 FOREIGN KEY (child_column1, child_column2, ... child_column_n)
 REFERENCES parentTable (parent_column1, parent_column2, ...
parent_column_n)

 [ON DELETE { NO ACTION |CASCADE |SET NULL |SET DEFAULT }]
 [ON UPDATE { NO ACTION |CASCADE |SET NULL |SET DEFAULT }]
);

Here constraint_name is not type, but to name FOREIGN KEY constraint.

* ON DELETE: An optional parameter. It specifies what happens to the child data after deletion of the parent data.

Some of the values for this parameter include

```

*NO ACTION
*SET NULL
*CASCADE,
*SET DEFAULT.

```

*ON UPDATE: An optional parameter. It specifies what happens to the child data after update on the parent

Some of the values for this parameter include

*NO ACTION: used together with ON DELETE and ON UPDATE.

*CASCADE: used together with ON DELETE and ON UPDATE.
The child data will either be deleted or updated after the parent data has been deleted or updated.

*SET DEFAULT: used together with ON DELETE and ON UPDATE.
The child data will be set to default values after an update or delete on the parent data.

* STEPS:

```
* Child Table : We need to create the second table as a child table.
                  'Course ID' and 'Course Strength' as two columns. However, 'Course ID' shall
```

be Foreign Key.

* Parent Table:

```
CREATE TABLE COURSE
(
    Course_Id          INT          NOT NULL
PRIMARY KEY,
    Course_Name        VARCHAR(20)
);
```

* Child Table:

```
CREATE TABLE COURSE_STRENGTH
(
    Course_Id          INT          NOT NULL,
    Course_Strength    VARCHAR(50)
);
```

* STEPS:

* Right Click on Tables>New> Table...

* Enter two column name as 'Course_ID' and 'Course_Strength.'

* Right click on 'Course_Id' Column. Now click on Relationship.

* In 'Foreign Key Relationship,' Click 'Add'.

* In 'Table and Column Spec' click on '...' icon.

* Select 'Primary Key Table' as 'COURSE' and
the new table now being created as 'Foreign Key Table' from the drop down.

* Primary Key Table' - Select 'Course_Id' column as 'Primary Key table'

column.

'Foreign Key Table' - Select 'Course_Id' column as 'Foreign Key table'

column.

* Click OK.

- * Click on Add.
- * Click on Close.
- * Give the Table name as 'Course_Strength' and click on OK.
- * If the Pop Up box comes and say do you want to save data, then Click

Yes/Ok.

* FOREIGN KEY ON ALTER TABLE

* SYNTAX: ALTER TABLE table_name ADD FOREIGN KEY (colname) REFERENCES table_name(colname);

* EG : ALTER TABLE testdata1 ADD FOREIGN KEY (testid) REFERENCES testdata(testid);

* DROP FOREIGN KEY

* SYNTAX: ALTER TABLE table_name
 DROP CONSTRAINT constraint_name;

* EG: ALTER TABLE testdata1
 DROP CONSTRAINT myfk_nage;

Here constraint_name is not type, but to name PRIMARY KEY constraint.

* CHECK CONSTRAINT

* The CHECK constraint is used to limit the value range that can be placed in a column.

* If you define a CHECK constraint on a column it will allow only certain values for this column.

* If you define a CHECK constraint on a table it can limit the values in certain columns based

on values in other columns in the row.

* CHECK ON CREATE TABLE

```
* EG:                CREATE TABLE testcheck(
                                checkid                int                NOT NULL
PRIMARY KEY,
                                checkna                varchar(50)
                                checkla                varchar(50),
                                checess                varchar(200),
                                checage                int                CHECK
(checage>=20)
                                );
```

```
*TRY INSERTING        INSERT INTO testcheck
VALUES:                VALUES (1, 'Manoj', 'MJ', 'Thygarajnagar', 20);

                                INSERT INTO testcheck
                                VALUES (2, 'Rahul', 'RJ', 'Shivajinagar', 25);

                                INSERT INTO testcheck
                                VALUES (3, 'Sagar', 'SAG', 'Chickpet', 12);
```

<-----THIS WONT WORK;ERROR

```
*ERROR:                Msg 547, Level 16, State 0, Line 1
                                The INSERT statement conflicted with the CHECK constraint
"CK__testcheck__checa__160F4887".
                                The conflict occurred in database "testDB", table "dbo.testcheck",
column 'checage'.
                                The statement has been terminated.

                                Completion time: 2022-10-05T18:38:15.7852965+05:30
```

* CHECK ON CREATE TABLE: To allow naming of a CHECK constraint, and for defining a CHECK constraint on

multiple columns.

```
* SYNTAX:          CONSTRAINT constraint_name CHECK (cond1,cond2....)
```

```
* EG:          CREATE TABLE testcheck(
                checkid          int          NOT NULL
PRIMARY KEY,
                checkna          varchar(50)   NOT NULL,
                checkla          varchar(50),
                checess          varchar(200),
                checage          int
                CONSTRAINT chk_test CHECK (checage>=5 AND checkla='MJ')
                );
```

Here `constraint_name` is not type, but to name CHECK constraint.

* CHECK ON ALTER TABLE

```
* SYNTAX:          ALTER TABLE table_name  ADD  CHECK (condition);
```

```
* EG      :      ALTER TABLE testdata1  ADD  CHECK (checage>=5);
```

* CHECK ON ALTER TABLE: To allow naming of a CHECK constraint, and for defining a CHECK constraint on

multiple columns

```
* SYNTAX: ALTER TABLE table_name ADD CONSTRAINT constraint_name (cond1,cond2....);
```

```
* EG      :      ALTER TABLE testdata1  ADD  CONSTRAINT chk_test(checage>=5 AND
checkla='RJ');
```

Here `constraint_name` is not type, but to name CHECK constraint.

```
* EG:          ALTER TABLE testdata1
                DROP CONSTRAINT chk_test;
```

Here `constraint_name` is not type, but to name CHECK constraint.

.....

* The default value will be added to all new records, if no other value is specified.

- * It can also be used to insert system values, by using functions like GETDATE():

```

TRY INSERTING          INSERT INTO testdef
VALUES:                VALUES (1,'Manoj','','Thygarajnagar',20);  -- EMPTY FIELD

```

```
INSERT INTO testdef
VALUES (2,'ManojP','Thygarajnagar',20);
```

ERROR: Msg 213, Level 16, State 1, Line 1

Column name or number of supplied values does not

match table definition.

Completion time: 2022-10-05T19:08:18.7692290+05:30

INSERT INTO testdef(checkid,checkna,checcess,hecage)

<-----TRY THIS SOLUTION

VALUES (3,'ManojR','ThySim',25);

* DEFAULT ON ALTER TABLE

* SYNTAX: ALTER TABLE table_name ADD CONSTRAINT constraint_name
 DEFAULT 'value' FOR column_name;

* EG : ALTER TABLE testdef ADD CONSTRAINT check_lal
 DEFAULT 18 FOR hecage;

* DROP DEFAULT CONSTRAINT

* SYNTAX: ALTER TABLE table_name
 DROP CONSTRAINT constraint_name;

* EG: ALTER TABLE testdef
 DROP CONSTRAINT check_lal;

* CREATE INDEX CONSTRAINT

* It is used to create indexes in tables.

* Indexes are used to retrieve data from the database more quickly than otherwise.

The users cannot see the indexes, they are just used to speed up searches/queries.

* CREATE INDEX:

- * Creates an index on a table. Duplicate values are allowed

```
* SYNTAX:          CREATE INDEX index_name
                   ON table_name (column1, column2, ...);
```

[illegible]

* CREATE UNIQUE INDEX:

- * Creates a unique index on a table. Duplicate values are not allowed.

* The syntax for creating indexes varies among different databases. Therefore Check the syntax for creating indexes in your database.

```
* SYNTAX:      CREATE UNIQUE INDEX index_name
                ON table_name (column1, column2, ...);
```

```
* EG: CREATE UNIQUE INDEX person_index_two
      ON Persons(Age);
```

* DROP INDEX:

* It is used to delete an index in a table.

```
* SYNTAX: DROP INDEX table_name.index_name;
```

```
* EG: DROP INDEX Persons.person_index_two;
```

* AUTO INCREMENT:

* Auto-increment allows a unique number to be generated automatically when a new record is inserted into a table.

* Often this is the primary key field that we would like to be created automatically every time a new record is

inserted.

```
* EG:                CREATE TABLE Persons (  
                        Personid                int  
IDENTITY(1,1) PRIMARY KEY,  
                        LastName                varchar(255) NOT NULL,  
                        FirstName                varchar(255),  
                        Age int  
                        );
```

* The MS SQL Server uses the IDENTITY keyword to perform an auto-increment feature.

* In the example above, the starting value for IDENTITY is 1, and it will increment by 1 for each new record.

* Tip: To specify that the "Personid" column should start at value 10 and increment by 5, change it to
IDENTITY(10,5).

* To insert a new record into the "Persons" table, we will NOT have to specify a value for the "Personid" column

(a unique value will be added automatically):

* INSERT INTO Persons values('MJ','Bahudar',22);