```
https://github.com/ManjDesp/sqlscripts.git
     .....
* TO CREATE DATABASE
             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';
              Msg 3201, Level 16, State 1, Line 1
ERROR:
                     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,
                                         varchar(50),
                                testna
                                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,...
```

```
CREATE TABLE dbtestdata AS
EX:
                    SELECT testna, city
                   FROM testdata;
             Msg 156, Level 15, State 1, Line 2 Incorrect syntax near the keyword
ERROR 1:
'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)
(1, 'Manoj', 'MJ', 'Thygarajnagar', 'Bangalore Rural');
                                 INSERT INTO
testdata(testid,testna,tesla,address,city)
(2, 'Rahul', 'RJ', 'Shivajinagar', 'Bangalore Urban');
      * EX 2:
```

INSERT INTO testdata(testid,testna,city)

FROM existing table name

WHERE;

```
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'); ----st TO TRUNCATE TABLE: It is used to delete the data inside a table, but not the table 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: Prevent	s actions that would destroy links between tables.					
5:CHECK: condition.	Ensures that the values in a column satisfies a specific					
6:DEFAULT:	Sets a default value for a column if no value is specified.					
	create and retrieve data from the database very quickly.					
* NOT NULL						
insert a new record,	to always contain a value, which means that you cannot					
* EG:	CREATE TABLE testdata1(testid int					
* NOT NULL ON ALTER TAB						
* 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						
	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.						

CREATE TABLE testdata1(

testid int

NOT NULL

* EG:

```
UNIQUE,
                                testna varchar(50)
                                                         NOT NULL UNIQUE,
                                         varchar(50),
                                tesla
                                address varchar(200),
                                         varchar(30)
                                city
                        );
* 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');
                      (1 row affected)
* ERROR2:
                              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,
                 CONSTRAINT constraint_name UNIQUE (col1,col2,col3....coln)
* SYNTAX:
                              Here constraint_name is not type, but to name UNIQUE
constraint.
* EG:
                      CREATE TABLE testdata1(
                              testid
                                             int
                                                                            NOT
NULL,
                                           varchar(50)
                                                                    NOT NULL,
                              testna
                                             varchar(50),
                              tesla
                              address
                                             varchar(200),
                              age
                                                     int,
                              CONSTRAINT idna UNIQUE (testid, testna)
                       );
* UNIOUE 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);
```

<pre>* EG: UNIQUE(testid,testna);</pre>	ALTER	TABLE	testdata1	ADD CON	ISTRA:	ENT m	yc1			
constraint.			constraint							
* DROP UNIQUE CONSTRAIN	IT									
* SYNTAX:	ALTER		table_name CONSTRAINT	constra	aint_r	name;				
* EG:	ALTER		testdata1 CONSTRAINT	myc1;						
constraint.			constraint							
* PRIMARY KEY										
* A table can have only consist of single or mu columns (fields). * PRIMARY KEY ON CREATE	iltiple									
* EG:	CREATE	TABLE	testdata1(
NULL PRIMARY KEY,);	test test tesl addr age	na	int varchar varchar varchar	(50)),		N	OT NI	NOT
* PRIMARY KEY - To allo PRIMARY KEY constraint	w namin	g of a	PRIMARY KE	Y constr	raint	, and	for d	 lefi	ning	a
		on m	ultiple col	umns. 						
* SYNTAX: (col1,col2,col3colr		AINT c	onstraint_n	ame PRIN	MARY I	ΚΕΥ				

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, varchar(50), tesla varchar(200), address 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), varchar(200), address age int, somali varchar(20), varchar(30), mya 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);					
<pre>* EG: KEY (testid,testna);</pre>	ALTER	TABLE	testdata1	ADD CONST	TRAINT	mypk_nag	ge PRIMARY
PRIMARY KEY constraint.		Here	e constraint	_name is r	not type	e, but to	o name
* NOTE: column(s) must have been created).	-	ared to		·	,	•	e primary key was first
* DROP PRIMARY KEY CONS							
* SYNTAX:	ALTER		table_name P CONSTRAINT	constrair	nt_name;	;	
* EG:	ALTER		testdata1 P CONSTRAINT	mypk_nage	e;		
PRIMARY KEY constraint.			e constraint	_			o name
* FOREIGN KEY							
* FOREIGN KEY constraintables.							
* A FOREIGN KEY is a fid the PRIMARY KEY in anoth table.		r colle	ection of fi	elds) in o	one tabl	le, that	refers to
* The table with the fo	reign	key is	called the	Child tab	le.		
* The table with the pr	imary	key is	called the	Referenced	d or Par	rent tabl	le.
* FOREIGN KEY ON CREATE	TABLE						
* REFERENCE:							
* TABLE1:			CREATE	TABLE tdut	tta(dutid		int
NOT NUL	L,						
NOT NULL,				(dutna		varchar(50)

```
dutdd
                                                                          varchar(50)
        NOT NULL,
                                                          testid
                                                                          int
                FOREIGN KEY
                                 REFERENCES
                                                 testdata1(testid)
<---
                                                 );
* TABLE2:
                                         CREATE TABLE testdata1(
                                                          testid
                                                                          int
                NOT NULL
                                 PRIMARY KEY,
                                                          testna
                                                                          varchar(50)
        NOT NULL,
                                                          tesla
                                                                          varchar(50),
                                                          address
varchar(200),
                                                                                   int,
                                                          age
                                                          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

data.

Some of the values for this parameter include

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

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

It means that nothing will happen to the child data after the update or deletion of the parent data.

*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 NULL: used together with ON DELETE and ON UPDATE.

The child will be set to null after the parent data has been updated or deleted.

*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.

* -----

* FOREIGN KEY - To allow naming of a FOREIGN KEY constraint, and for defining a FOREIGN KEY constraint

on multiple columns.

* STEPS:

* Parent Table: Say, we have an existing Parent table as 'COURSE.'

Course_ID and Course_name are two columns with

Course Id as Primary Key.

```
* 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.
```

on OK.		* Gi	ive the Tablo	e nar	ne as'	Cours	e_Strengt	h' and click
save data, then Click Ye	s/0k.	* I1	f the Pop Up	box	comes	and s	ay do you	want to
* FOREIGN KEY ON ALTER	TABLE							
<pre>* SYNTAX: table_name(colname);</pre>	ALTER -	TABLE	table_name	ADD	FOREIG	SN KEY	(colname) REFERENCES
<pre>* EG : testdata(testid);</pre>	ALTER -	TABLE	testdata1	ADD	FOREIG	SN KEY	(testid)	REFERENCES
* DROP FOREIGN KEY								
* SYNTAX:	ALTER -		table_name CONSTRAINT	cons	straint	_name	;	
* EG:	ALTER -		testdata1 CONSTRAINT	myfl	k_nage;			
PRIMARY KEY constraint.			e constraint					
* CHECK CONSTRAINT								
* The CHECK constraint column.	is used	to li	imit the valu	ue ra	ange th	at ca	n be plac	ed in a
* If you define a CHECK this column.	constr	aint d	on a column :	it w	ill all	.ow on	ly certai	n values for
* If you define a CHECK columns based	constr	aint d	on a table i	t car	n limit	the	values in	certain
on values in other co	lumns i	n the	row.					
* CHECK ON CREATE TABLE								
* EG:	2		ATE TABLE te	stche		_ -	int	

```
NOT NULL
                     PRIMARY KEY,
                                          checkna
                                                        varchar(50)
NOT NULL,
                                          checkla
                                                        varchar(50),
                                                        varchar(200),
                                          checess
                                          checage
                                                        int
       CHECK (checage>=20)
                                   );
*TRY INSERTING
                    INSERT INTO testcheck
                           VALUES (1, 'Manoj', 'MJ', 'Thygarajnagar', 20);
VALUES:
                                   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),
                                                        varchar(200),
                                          checess
                                          checage
                                                        int
                                          CONSTRAINT chk_test CHECK
(checage>=5 AND checkla='MJ')
```

name CHECK constraint	Here constraint_name is not type, but to
* CHECK ON ALTER TABL	
* SYNTAX:	ALTER TABLE table_name ADD CHECK (condition);
* EG :	ALTER TABLE testdata1 ADD CHECK (checage>=5);
	E: To allow naming of a CHECK constraint, and for defining a
	multiple columns
* SYNTAX: constraint_name (cond	ALTER TABLE table_name ADD CONSTRAINT 1,cond2);
* EG : chk_test(checage>=5 A	ALTER TABLE testdata1 ADD CONSTRAINT ND checkla='RJ');
name CHECK constraint	Here constraint_name is not type, but to .
* DROP CHECK CONSTRAI	NT
* SYNTAX:	ALTER TABLE table_name DROP CONSTRAINT constraint_name;
* EG:	ALTER TABLE testdata1 DROP CONSTRAINT chk_test;
constraint.	Here constraint_name is not type, but to name CHECK
* DEFAULT CONSTRAINT	
	int is used to set a default value for a column

^{*} The DEFAULT constraint is used to set a default value for a column

 $[\]ensuremath{^{*}}$ 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():
* DEFAULT ON CREATE TABLE
* EG:
                             CREATE TABLE testdef(
                                            checkid
                                                          int
       NOT NULL
                      PRIMARY KEY,
                                            checkna
                                                          varchar(50)
NOT NULL,
                                            checkla
                                                          varchar(50)
              'NO',
DEFAULT
                                            checess
                                                          varchar(200),
                                                          int
                                            checage
                                     );
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,checess,checage)
                                                   <----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 checage;
* 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 inde	xes, they are just used to speed up searches/queries.						
- ·								
*	CREATE INDEX:							
*	Creates an index on a table. I	Duplicate values are allowed						
*	SYNTAX:	<pre>CREATE INDEX index_name ON table_name (column1, column2,);</pre>						
*	EG:	<pre>CREATE INDEX person_index_one ON Persons(LastName,FirstName);</pre>						
- *	CREATE UNIQUE INDEX:							
*	Creates a unique index on a ta	able. Duplicate values are not allowed.						
	The syntax for creating indexone the syntax for creating	es varies among different databases. Therefore Check						
	indexes in your database.							
*	SYNTAX:	<pre>CREATE UNIQUE INDEX index_name ON table_name (column1, column2,);</pre>						
*	EG:	<pre>CREATE UNIQUE INDEX person_index_two ON Persons(Age);</pre>						
-								

```
* 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);
```