# DBMS Lab Assignment 2

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```sql
/*1.Show how to create and drop database*/
CREATE DATABASE T8_Hospital_Database;
DROP DATABASE T8_Hospital_Database;


/*2.Show all the databases in the system*/
SELECT *FROM sys.databases WHERE database_id>0;
```

|   | name   | database_id | source_database_id | owner_sid | create_date             |
|---|--------|-------------|--------------------|-----------|-------------------------|
| 1 | master | 1           | NULL               | 0x01      | 2003-04-08 09:13:36.390 |
| 2 | tempdb | 2           | NULL               | 0x01      | 2021-02-11 13:41:06.790 |
| 3 | model  | 3           | NULL               | 0x01      | 2003-04-08 09:13:36.390 |
| 4 | msdb   | 4           | NULL               | 0x01      | 2019-09-24 14:21:42.270 |

```sql
/*3.Create table for your database*/
CREATE TABLE patient
(ID INT NOT NULL
CONSTRAINT AK_ID UNIQUE(ID),
Assigned_Doctor INT NOT NULL,
Patient_Name VARCHAR,
Gender VARCHAR NOT NULL,
DOB DATE NOT NULL,
Condition VARCHAR NOT NULL,
Blood_Group VARCHAR NOT NULL,
Address VARCHAR NOT NULL,
Phone_Number INT NOT NULL
CONSTRAINT AK_Phone_Number UNIQUE(Phone_Number),);
```

```
/*4.Drop Table*/
CREATE TABLE TEST(
TEST1 INT NOT NULL,);
DROP TABLE TEST;



/*5. Show how to check the schema of the tables*/
sp_help patient;
```

**Results** | **Messages**

| | Name | Owner | Type | Created_datetime |
|---|---|---|---|---|
| 1 | patient | dbo | user table | 2021-02-13 12:34:11.340 |

| | Column_name | Type | Computed | Length | Prec | Scale | Nullable | TrimTrailingBlanks | FixedLenNullInSource | Collation |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ID | int | no | 4 | 10 | 0 | no | (n/a) | (n/a) | NULL |
| 2 | Assigned_Doctor | int | no | 4 | 10 | 0 | no | (n/a) | (n/a) | NULL |
| 3 | Patient_Name | varchar | no | 1 | | | yes | no | yes | SQL_Latin1_General_CP1_CI_AS |
| 4 | Gender | varchar | no | 1 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| 5 | DOB | date | no | 3 | 10 | 0 | no | (n/a) | (n/a) | NULL |
| 6 | Condition | varchar | no | 1 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| 7 | Blood_Group | varchar | no | 1 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| 8 | Address | varchar | no | 1 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |

| | Identity | Seed | Increment | Not For Replication |
|---|---|---|---|---|
| 1 | No identity column defined. | NULL | NULL | NULL |

| | RowGuidCol |
|---|---|
| 1 | No rowguidcol column defined. |

| | Data_located_on_filegroup |
|---|---|
| 1 | PRIMARY |

| | index_name | index_description | index_keys |
|---|---|---|---|
| 1 | AK_ID | nonclustered, unique, unique key located on PRIMA... | ID |
| 2 | AK_Phone_Number | nonclustered, unique, unique key located on PRIMA... | Phone_Number |

| | constraint_type | constraint_name | delete_action | update_action | status_enabled | status_for_replication | constraint_keys |
|---|---|---|---|---|---|---|---|
| 1 | UNIQUE (non-clustered) | AK_ID | (n/a) | (n/a) | (n/a) | (n/a) | ID |
| 2 | UNIQUE (non-clustered) | AK_Phone_Number | (n/a) | (n/a) | (n/a) | (n/a) | Phone_Number |

```sql
/*6. Show all the tables from the database*/
SELECT * FROM SYSOBJECTS WHERE xtype='U';
```

| | name | id | xtype | uid | info | status | base_schema_ver | replinfo | parent_obj | crdate | ftca |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | trace_xe_action_map | -463397375 | U | 4 | 0 | 0 | 0 | 0 | 0 | 2019-09-24 14:20:12.640 | 0 |
| 2 | trace_xe_event_map | -319884821 | U | 4 | 0 | 0 | 0 | 0 | 0 | 2019-09-24 14:20:12.560 | 0 |
| 3 | spt_fallback_db | 117575457 | U | 1 | 0 | 0 | 0 | 0 | 0 | 2003-04-08 09:18:01.557 | 0 |
| 4 | spt_fallback_dev | 133575514 | U | 1 | 0 | 0 | 0 | 0 | 0 | 2003-04-08 09:18:02.870 | 0 |
| 5 | spt_fallback_usg | 149575571 | U | 1 | 0 | 0 | 0 | 0 | 0 | 2003-04-08 09:18:04.180 | 0 |
| 6 | patient | 1095674951 | U | 1 | 0 | 0 | 0 | 0 | 0 | 2021-02-13 12:34:11.340 | 0 |
| 7 | spt_monitor | 1803153469 | U | 1 | 0 | 0 | 0 | 0 | 0 | 2019-09-24 14:21:40.837 | 0 |
| 8 | MSreplication_options | 2107154552 | U | 1 | 0 | 0 | 0 | 0 | 0 | 2019-09-24 14:22:51.377 | 0 |

```sql
/*7.Create table using select statement*/
SELECT ID,Patient_Name,Gender,Phone_Number,Condition INTO
FEE from Patient;
```

```sql
/*8. Create a table which has derived attribute*/
CREATE TABLE Doctor
(DID INT NOT NULL,
CONSTRAINT AK_DID UNIQUE(DID),
Doctor_Name VARCHAR NOT NULL,
Current_Case VARCHAR,
DPhone_Number VARCHAR NOT NULL
CONSTRAINT AK_DPhone_Number UNIQUE(DPhone_Number),
Qualification VARCHAR NOT NULL,
Salary INT NOT NULL,
D_DIB INT NOT NULL,
Age as DATEDIFF(YEAR,D_DOB,GETDATE()),);
```