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DBMS LAB ASSIGNMENT – 2

TRAVEL AGENCY

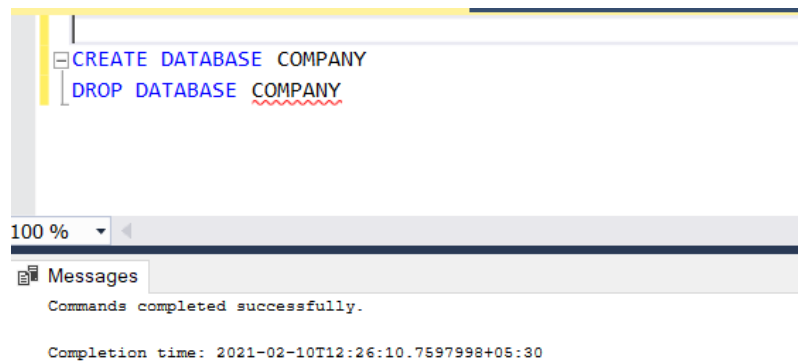
1. Show how to Create and Drop Database

QUERY

CREATE DATABASE COMPANY

DROP DATABASE COMPANY

OUTPUT



2. Show all the Databases are in the system

QUERY

SELECT * FROM sys.databases where database_id>0

OUTPUT

SELECT * FROM sys.databases where database_id>0

100 %

	name	database_id	source_database_id	owner_sid	create_date	compatibility_level	collation_name	user_access	user_access_desc	is_read_only	is_auto
1	master	1	NULL	0x01	2003-04-08 09:13:36.390	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
2	tempdb	2	NULL	0x01	2021-02-03 14:53:55.037	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
3	model	3	NULL	0x01	2003-04-08 09:13:36.390	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
4	msdb	4	NULL	0x01	2019-09-24 14:21:42.270	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
5	T3_TRAVEL	5	NULL	0x010500000000000515000000B59CB3A5A72D4F87740D59...	2021-02-03 16:17:07.450	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0

3. Create Table for your Database

QUERY

USE TEAM3_TRAVEL;

CREATE TABLE T3_CUSTOMER_DETAILS

(

Customer_ID CHAR(10) PRIMARY KEY NOT NULL,

```

        First_Name VARCHAR(20) NOT NULL,
        Last_Name VARCHAR(20) NOT NULL,
        Age INT NOT NULL,
        Gender CHAR(1) NOT NULL,
        Phone_No VARCHAR(12) NOT NULL,
        Address TEXT NOT NULL
    );
CREATE TABLE T3_BOOKING_DETAILS
(
    Customer_ID CHAR(10) FOREIGN KEY REFERENCES
T3_CUSTOMER_DETAILS(Customer_ID) NOT NULL,
    Booking_ID CHAR(7) PRIMARY KEY NOT NULL,
    Payment_Amount DECIMAL(10,2) NOT NULL,
    Payment_Date_Time DATETIME NOT NULL,
    Refund CHAR(1),
    Refunded_Amount DECIMAL(10,2),
    Refund_Date_Time DATETIME
);
CREATE TABLE T3_HOTELS_AT_DESTINATION
(
    City_ID CHAR(4) PRIMARY KEY NOT NULL,
    Hotel_ID CHAR(3) NOT NULL,
    Hotel_Name VARCHAR(10) NOT NULL,
    Hotel_Description TEXT NOT NULL,
    Address TEXT NOT NULL
);
CREATE TABLE T3_PACKAGE_DETAILS
(
    Package_Name VARCHAR(15) PRIMARY KEY NOT NULL,
    Package_Description TEXT NOT NULL,
    Cost DECIMAL(10,2) NOT NULL,
    Starting_Point VARCHAR(15) NOT NULL,
    Booking_ID CHAR(7) FOREIGN KEY REFERENCES T3_BOOKING_DETAILS(Booking_ID)
NOT NULL
);
CREATE TABLE T3_DESTINATION_DETAILS
(
    Package_Name VARCHAR(15) PRIMARY KEY NOT NULL,
    City_ID CHAR(4) FOREIGN KEY REFERENCES T3_HOTELS_AT_DESTINATION(City_ID)
NOT NULL,
    City VARCHAR(15) NOT NULL
);
CREATE TABLE T3_EMPLOYEE_DETAILS
(
    Employee_ID CHAR(5) PRIMARY KEY NOT NULL,
    Name VARCHAR(10) NOT NULL,
    Designation VARCHAR(15) NOT NULL,
    Phone_Number VARCHAR(12) NOT NULL,
    Salary DECIMAL(10,2) NOT NULL
);
CREATE TABLE T3_CAR
(
    Package_Name VARCHAR(15) FOREIGN KEY REFERENCES
T3_PACKAGE_DETAILS(Package_Name) NOT NULL,
    Car_ID CHAR(10) PRIMARY KEY NOT NULL,
    Car_Model VARCHAR(10) NOT NULL,
    Employee_ID CHAR(5) FOREIGN KEY REFERENCES T3_EMPLOYEE_DETAILS(Employee_ID)
NOT NULL,
    DateAndTime_Of_Pickup DATETIME NOT NULL,
    DateAndTime_Of_Drop DATETIME NOT NULL

```

```

);
CREATE TABLE T3_BUS
(
    Package_Name VARCHAR(15) FOREIGN KEY REFERENCES
T3_PACKAGE_DETAILS(Package_Name) NOT NULL,
    Bus_ID CHAR(4) PRIMARY KEY NOT NULL,
    Bus_Type VARCHAR(10) NOT NULL,
    Employee_ID CHAR(5) FOREIGN KEY REFERENCES T3_EMPLOYEE_DETAILS(Employee_ID)
NOT NULL,
    DateAndTime_Of_Arrival DATETIME NOT NULL,
    DateAndTime_Of_Departure DATETIME NOT NULL
);
CREATE TABLE T3_FLIGHT
(
    Package_Name VARCHAR(15) FOREIGN KEY REFERENCES
T3_PACKAGE_DETAILS(Package_Name) NOT NULL,
    Flight_ID CHAR(8) PRIMARY KEY NOT NULL,
    Flight_Class VARCHAR(10) NOT NULL,
    DateAndTime_Of_Boarding DATETIME NOT NULL,
    DateAndTime_Of_Landing DATETIME NOT NULL
);
CREATE TABLE T3_TRAIN
(
    Package_Name VARCHAR(15) FOREIGN KEY REFERENCES
T3_PACKAGE_DETAILS(Package_Name) NOT NULL,
    Train_No CHAR(8) PRIMARY KEY NOT NULL,
    Train_Class VARCHAR(10) NOT NULL,
    DateAndTime_Of_Arrival DATETIME NOT NULL,
    DateAndTime_Of_Departure DATETIME NOT NULL
)

```

OUTPUT

```

USE TEAM3_TRAVEL;
CREATE TABLE T3_CUSTOMER_DETAILS
(
    Customer_ID CHAR(10) PRIMARY KEY NOT NULL,
    First_Name VARCHAR(20) NOT NULL,
    Last_Name VARCHAR(20) NOT NULL,
    Age INT NOT NULL,
    Gender CHAR(1) NOT NULL,
    Phone_No VARCHAR(12) NOT NULL,
    Address TEXT NOT NULL
);
CREATE TABLE T3_BOOKING_DETAILS
(
    Customer_ID CHAR(10) FOREIGN KEY REFERENCES T3_CUSTOMER_DETAILS(Customer_ID) NOT NULL,
    Booking_ID CHAR(7) PRIMARY KEY NOT NULL,
    Payment_Amount DECIMAL(10,2) NOT NULL,
    Payment_Date_Time DATETIME NOT NULL,
    Refund CHAR(1),
    Refunded_Amount DECIMAL(10,2)
);

```

100 %

Messages

Commands completed successfully.

Completion time: 2021-02-10T15:52:21.3182604+05:30

4. Drop table

QUERY

```

CREATE TABLE MY_FRIENDS
(
    First_Name VARCHAR(20) NOT NULL,

```

Last_Name VARCHAR(20) NOT NULL,
 Gender CHAR(1) NOT NULL,
 Phone_Number VARCHAR(12) NOT NULL,
 DOB DATE NOT NULL,
 Address_details TEXT,
 Intrests TEXT

)
 DROP TABLE MY_FRIENDS

OUTPUT

```
CREATE TABLE MY_FRIENDS
(
    First_Name VARCHAR(20) NOT NULL,
    Last_Name VARCHAR(20) NOT NULL,
    Gender CHAR(1) NOT NULL,
    Phone_Number VARCHAR(12) NOT NULL,
    DOB DATE NOT NULL,
    Address_details TEXT,
    Intrests TEXT
)

DROP TABLE MY_FRIENDS
```

Messages

Commands completed successfully.

Completion time: 2021-02-10T12:45:09.1433014+05:30

5. Show how to check the schema of the tables

QUERY

USE TEAM3_TRAVEL;
 EXEC sp_help T3_BOOKING_DETAILS

OUTPUT

USE TEAM3_TRAVEL;
 EXEC sp_help T3_BOOKING_DETAILS

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Results Messages

	Name	Owner	Type	Created_datetime
1	T3_BOOKING_DETAILS	dbo	user table	2021-02-10 15:52:21.273

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	Customer_ID	char	no	10			no	no	no	SQL_Latin1_General_CP1_CI_AS
2	Booking_ID	char	no	7			no	no	no	SQL_Latin1_General_CP1_CI_AS
3	Payment_Amount	decimal	no	9	10	2	no	(n/a)	(n/a)	NULL
4	Payment_Date_Time	datetime	no	8			no	(n/a)	(n/a)	NULL
5	Refund	char	no	1			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
6	Refunded_Amount	decimal	no	9	10	2	yes	(n/a)	(n/a)	NULL
7	Refund_Date_Time	datetime	no	8			yes	(n/a)	(n/a)	NULL

	Identity	Seed	Increment	NotFor 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	PK_T3_BOOKI__35ABFDE0209CE8BF	clustered, unique, primary key located on PRIMARY	Booking_ID

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	FK_T3_BOOKIN__Custo__267ABA7A	No Action	No Action	Enabled	Is_For_Replication	Customer_ID
2							REFERENCES TEAM3_TRAVEL.dbo.T3_CUSTOMER_DETAILS (...)
3	PRIMARY KEY (clustered)	PK_T3_BOOKI__35ABFDE0209CE8BF	(n/a)	(n/a)	(n/a)	(n/a)	Booking_ID

	Table is referenced by foreign key
1	TEAM3_TRAVEL.dbo.T3_PACKAGE_DETAILS: FK_T3_PACKA...

Query executed successfully.

localhost (15.0 RTM) LAPTOP-13H0QF42\karus ... TEAM3_TRAVEL 00:00:00 16 rows

6. Show all the tables from the database (This is not done in class.)

QUERY

```
SELECT * FROM SYSOBJECTS WHERE xtype='U';
```

OUTPUT

```
SELECT * FROM SYSOBJECTS WHERE xtype='U';
```

	name	id	xtype	uid	info	status	base_schema_ver	replinfo	parent_obj	crdate	fileid	schema_ver	stats_schema_ver	type	userstat	sysstat	indexdel	refdate	version
1	trace_xe_action_map	-463397375	U	4	0	0	0	0	0	2019-09-24 14:20:12.640	0	0	0	U	1	3	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	0	0	U	1	3	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	0	0	U	1	3	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	0	0	U	1	3	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	0	0	U	1	3	0	2003-04-08 09:18:04.180	0
6	spt_monitor	1803153469	U	1	0	0	0	0	0	2019-09-24 14:21:40.837	0	0	0	U	1	3	0	2019-09-24 14:21:40.837	0
7	MSreplication_options	2107154552	U	1	0	0	0	0	0	2019-09-24 14:22:51.377	0	0	0	U	1	3	0	2019-09-24 14:22:51.377	0

7. Create Table using Select Statement (I haven't showed you this. I want you to try, it is very simple you should not have any problem).

QUERY

```
USE TEAM3_TRAVEL;
```

```
SELECT Employee_ID, Name, Salary INTO EMPLOYEE_INFO FROM T3_EMPLOYEE_DETAILS
```

OUTPUT

The screenshot shows the SQL Server Enterprise Manager interface on the left, displaying the database structure for 'TEAM3_TRAVEL'. The 'Tables' folder is expanded, showing a list of tables including 'dbo.EMPLOYEE_INFO', 'dbo.T3_BOOKING_DETAILS', 'dbo.T3_BUS', 'dbo.T3_CAR', 'dbo.T3_CUSTOMER_DETAILS', 'dbo.T3_DESTINATION_DETAILS', 'dbo.T3_EMPLOYEE_DETAILS', 'dbo.T3_FLIGHT', 'dbo.T3_HOTELS_AT_DESTINATION', 'dbo.T3_PACKAGE_DETAILS', and 'dbo.T3_TRAIN'. On the right, the SQL Query window shows the following query:

```
USE TEAM3_TRAVEL;  
SELECT Employee_ID, Name, Salary INTO EMPLOYEE_INFO FROM T3_EMPLOYEE_DETAILS
```

The query results pane at the bottom indicates that 0 rows were affected and the completion time was 2021-02-10T16:18:44.9704265+05:30.

8. Create a table which has derived attribute. (Example can be Age is a derived attribute from Date of Birth. You should try this as well).

QUERY

```
CREATE TABLE MY_FRIENDS_DETAILS
```

(

```
    First_Name VARCHAR(20) NOT NULL,  
    Last_Name VARCHAR(20) NOT NULL,  
    Gender CHAR(1) NOT NULL,  
    Phone_Number VARCHAR(12) NOT NULL,  
    DOB DATE NOT NULL,
```

Age INT NOT NULL,
Address_details TEXT,
Intrests TEXT

)

OUTPUT

```
CREATE TABLE MY_FRIENDS_DETAILS
(
    First_Name VARCHAR(20) NOT NULL,
    Last_Name VARCHAR(20) NOT NULL,
    Gender CHAR(1) NOT NULL,
    Phone_Number VARCHAR(12) NOT NULL,
    DOB DATE NOT NULL,
    Age INT NOT NULL,
    Address_details TEXT,
    Intrests TEXT
)
```

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Messages

Commands completed successfully.

Completion time: 2021-02-10T16:28:18.8258179+05:30