

DBMS Lab Assignment-2

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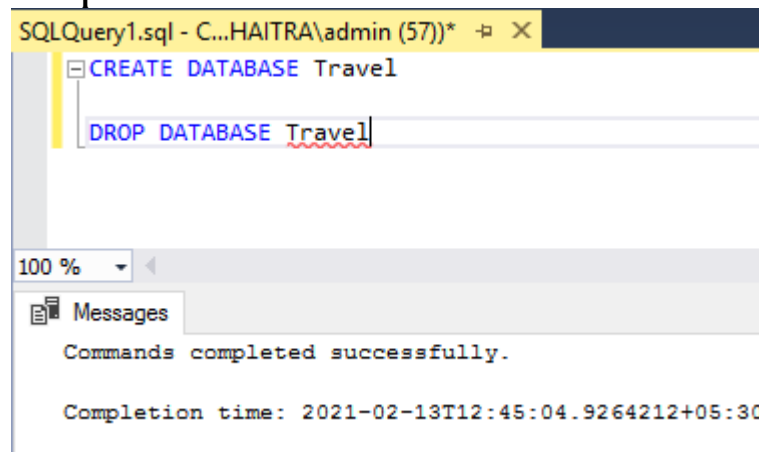
Database:- Travel Agency

1. Show how to Create and Drop Database

Query:-

```
CREATE DATABASE Travel
DROP DATABASE Travel
```

Output:-



2. Show all the Databases are in the system

Query:-

```
SELECT *FROM sys.databases where database_id>0
```

Output:-

The screenshot shows the 'Results' pane of a SQL query window. The query is 'SELECT *FROM sys.databases where database_id>0'. The results are displayed in a table with the following columns: name, database_id, source_database_id, owner_sid, create_date, compatibility_level, collation_name, and user_access. The table contains five rows of data, including the 'master', 'tempdb', 'model', 'msdb', and 'T10_Travel' databases.

	name	database_id	source_database_id	owner_sid	create_date	compatibility_level	collation_name	user_access
1	master	1	NULL	0x01	2003-04-08 09:13:36.390	150	Latin1_General_CI_AI	0
2	tempdb	2	NULL	0x01	2021-02-08 15:42:44.720	150	Latin1_General_CI_AI	0
3	model	3	NULL	0x01	2003-04-08 09:13:36.390	150	Latin1_General_CI_AI	0
4	msdb	4	NULL	0x01	2019-09-24 14:21:42.270	150	Latin1_General_CI_AI	0
5	T10_Travel	5	NULL	0x010500000000000515000000A347D0510EC417D47BEC23...	2021-02-13 12:57:40.960	150	Latin1_General_CI_AI	0

3. Create Table for your Database

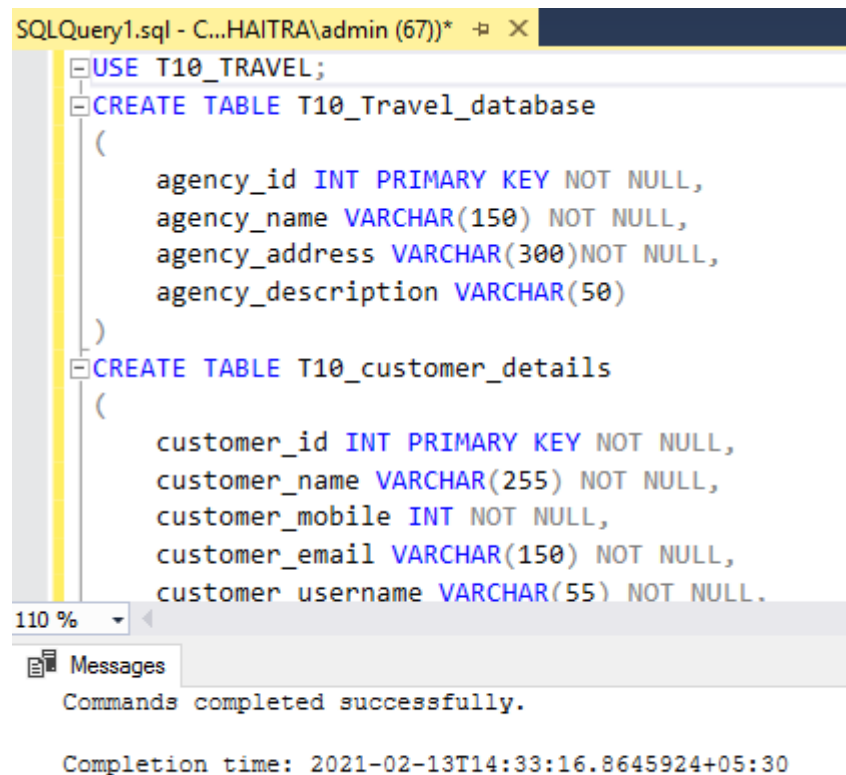
Query:-

```
USE T10_TRAVEL;
CREATE TABLE T10_Travel_database
(
    agency_id INT PRIMARY KEY NOT NULL,
    agency_name VARCHAR(150) NOT NULL,
    agency_address VARCHAR(300) NOT NULL,
    agency_description VARCHAR(50)
)
CREATE TABLE T10_customer_details
(
    customer_id INT PRIMARY KEY NOT NULL,
    customer_name VARCHAR(255) NOT NULL,
    customer_mobile INT NOT NULL,
    customer_email VARCHAR(150) NOT NULL,
    customer_username VARCHAR(55) NOT NULL,
    customer_password VARCHAR(50) NOT NULL,
    customer_address VARCHAR(600) NOT NULL
);
CREATE TABLE T10_booking_details
(
    booking_id INT PRIMARY KEY NOT NULL,
    booking_hotel_id VARCHAR(200) NOT NULL,
    booking_title VARCHAR(50),
    booking_type VARCHAR(60) NOT NULL,
    booking_date INT NOT NULL,
    booking_description VARCHAR(50)
);
CREATE TABLE T10_hotel_details
(
    hotel_id INT PRIMARY KEY NOT NULL,
```

```
hotel_name VARCHAR(300) NOT NULL,  
hotel_type VARCHAR(50) NOT NULL,  
hotel_rent INT NOT NULL,  
hotel_description VARCHAR(50),  
hotel_address VARCHAR(500) NOT NULL  
);  
CREATE TABLE T10_tour_details  
(  
    tour_id INT PRIMARY KEY NOT NULL,  
    tour_agent_id VARCHAR(50) NOT NULL,  
    tour_customer_id VARCHAR(50) NOT NULL,  
    tour_name VARCHAR(50) NOT NULL,  
    tour_type VARCHAR(90) NOT NULL,  
    tour_place VARCHAR(50) NOT NULL,  
    tour_description VARCHAR(150)  
);  
CREATE TABLE T10_package_details  
(  
    package_id INT PRIMARY KEY NOT NULL,  
    package_tour_id INT NOT NULL,  
    package_name VARCHAR(50) NOT NULL,  
    package_amount INT NOT NULL,  
    package_total INT NOT NULL,  
    package_type VARCHAR(75) NOT NULL,  
    package_description VARCHAR(350)  
);  
CREATE TABLE T10_transportation_details  
(  
    transportation_id INT PRIMARY KEY NOT NULL,  
    transportation_tour_id VARCHAR(300) NOT NULL,  
    transportation_name VARCHAR(70) NOT NULL,  
    transportation_type VARCHAR(60) NOT NULL,  
    transportation_description VARCHAR(150)
```

);

Output:-



The screenshot shows a SQL Query window titled "SQLQuery1.sql - C...HAITRA\admin (67))". The window contains the following SQL code:

```
USE T10_TRAVEL;  
CREATE TABLE T10_Travel_database  
(  
    agency_id INT PRIMARY KEY NOT NULL,  
    agency_name VARCHAR(150) NOT NULL,  
    agency_address VARCHAR(300) NOT NULL,  
    agency_description VARCHAR(50)  
)  
CREATE TABLE T10_customer_details  
(  
    customer_id INT PRIMARY KEY NOT NULL,  
    customer_name VARCHAR(255) NOT NULL,  
    customer_mobile INT NOT NULL,  
    customer_email VARCHAR(150) NOT NULL,  
    customer_username VARCHAR(55) NOT NULL.
```

Below the code, a "Messages" pane shows the output: "Commands completed successfully." and "Completion time: 2021-02-13T14:33:16.8645924+05:30".

4. Drop table

Query:-

```
CREATE TABLE NEW_INVENTORY  
(  
    ID INT NOT NULL,  
    product VARCHAR(70) NOT NULL,  
    quantity INT NOT NULL,  
    price DECIMAL (18,2) NOT NULL,  
);  
DROP TABLE NEW_INVENTORY
```

Output:-

```
SQLQuery1.sql - C:\HAITRA\admin (67))* X
CREATE TABLE NEW_INVENTORY
(
    ID INT NOT NULL,
    product VARCHAR(70) NOT NULL,
    quantity INT NOT NULL,
    price DECIMAL (18,2) NOT NULL,
);
DROP TABLE NEW_INVENTORY
```

110 %

Messages

Commands completed successfully.

Completion time: 2021-02-13T14:50:39.5324497+05:30

5. Show how to check the schema of the tables

Query:-

USE T10_Travel;

EXEC sp_help T10_booking_details

Output:-

SQLQuery1.sql - C:\HAITRA\admin (67))* X

```
USE T10_Travel;
EXEC sp_help T10_booking_details
```

100 %

Results Messages

	Name	Owner	Type	Created_datetime
1	T10_booking_details	dbo	user table	2021-02-13 14:33:16.830

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	booking_id	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	booking_hotel_id	varchar	no	200			no	no	no	Latin1_General_CI_AI
3	booking_title	varchar	no	50			yes	no	yes	Latin1_General_CI_AI
4	booking_type	varchar	no	60			no	no	no	Latin1_General_CI_AI
5	booking_date	int	no	4	10	0	no	(n/a)	(n/a)	NULL
6	booking_descri...	varchar	no	50			yes	no	yes	Latin1_General_CI_AI

	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	PK__T10_book__5DE3A5B10137F97E	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	PRIMARY KEY (clustered)	PK__T10_book__5DE3A5B10137F97E	(n/a)	(n/a)	(n/a)	(n/a)	booking_id

Activate Windows

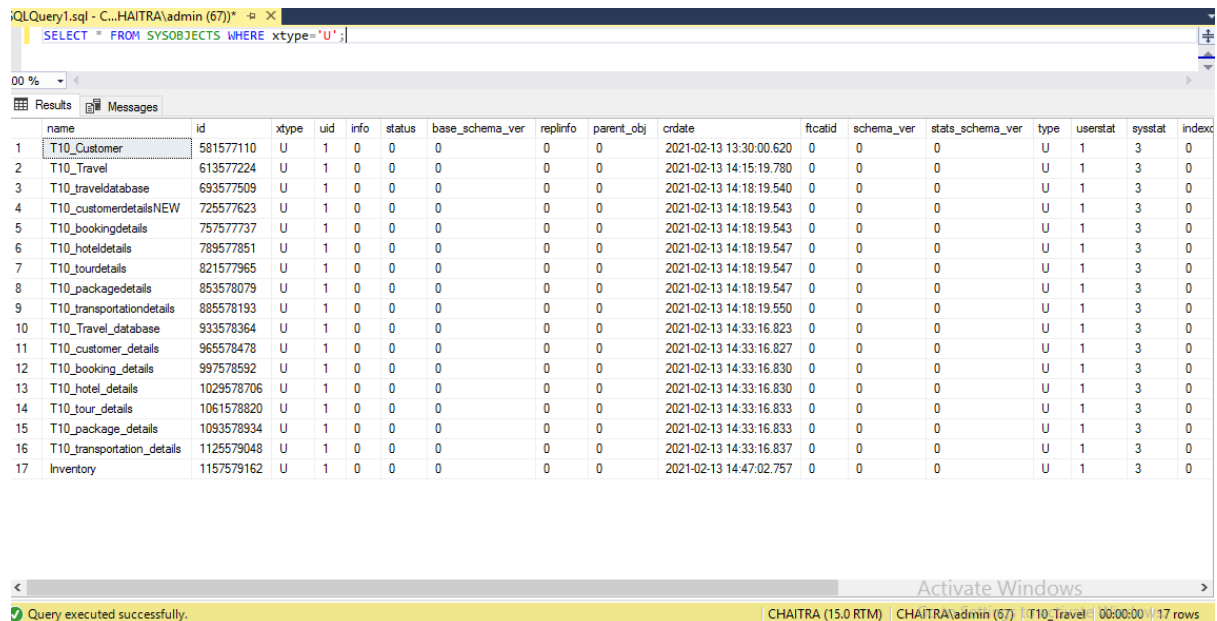
Query executed successfully. CHAITRA (15.0 RTM) CHAITRA\admin (67) T10_Travel 00:00:01 12 rows

6. Show all the tables from the database

Query:-

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

Output:-



The screenshot shows the SQL Server Enterprise Manager interface. The query window displays the query: `SELECT * FROM SYSOBJECTS WHERE xtype='U';`. The Results pane shows a list of 17 tables. The status bar at the bottom indicates "Query executed successfully." and "17 rows".

	name	id	xtype	uid	info	status	base_schema_ver	replinfo	parent_obj	crdate	ftcatid	schema_ver	stats_schema_ver	type	userstat	sysstat	index
1	T10_Customer	581577110	U	1	0	0	0	0	0	2021-02-13 13:30:00.620	0	0	0	U	1	3	0
2	T10_Travel	613577224	U	1	0	0	0	0	0	2021-02-13 14:15:19.780	0	0	0	U	1	3	0
3	T10_traveldatabase	693577509	U	1	0	0	0	0	0	2021-02-13 14:18:19.540	0	0	0	U	1	3	0
4	T10_customerdetailsNEW	725577623	U	1	0	0	0	0	0	2021-02-13 14:18:19.543	0	0	0	U	1	3	0
5	T10_bookingdetails	757577737	U	1	0	0	0	0	0	2021-02-13 14:18:19.543	0	0	0	U	1	3	0
6	T10_hoteldetails	789577851	U	1	0	0	0	0	0	2021-02-13 14:18:19.547	0	0	0	U	1	3	0
7	T10_tourdetails	821577965	U	1	0	0	0	0	0	2021-02-13 14:18:19.547	0	0	0	U	1	3	0
8	T10_package_details	853578079	U	1	0	0	0	0	0	2021-02-13 14:18:19.547	0	0	0	U	1	3	0
9	T10_transportationdetails	885578193	U	1	0	0	0	0	0	2021-02-13 14:18:19.550	0	0	0	U	1	3	0
10	T10_Travel_database	933578364	U	1	0	0	0	0	0	2021-02-13 14:33:16.823	0	0	0	U	1	3	0
11	T10_customer_details	965578478	U	1	0	0	0	0	0	2021-02-13 14:33:16.827	0	0	0	U	1	3	0
12	T10_booking_details	997578592	U	1	0	0	0	0	0	2021-02-13 14:33:16.830	0	0	0	U	1	3	0
13	T10_hotel_details	1029578706	U	1	0	0	0	0	0	2021-02-13 14:33:16.830	0	0	0	U	1	3	0
14	T10_tour_details	1061578820	U	1	0	0	0	0	0	2021-02-13 14:33:16.833	0	0	0	U	1	3	0
15	T10_package_details	1093578934	U	1	0	0	0	0	0	2021-02-13 14:33:16.833	0	0	0	U	1	3	0
16	T10_transportation_details	1125579048	U	1	0	0	0	0	0	2021-02-13 14:33:16.837	0	0	0	U	1	3	0
17	Inventory	1157579162	U	1	0	0	0	0	0	2021-02-13 14:47:02.757	0	0	0	U	1	3	0

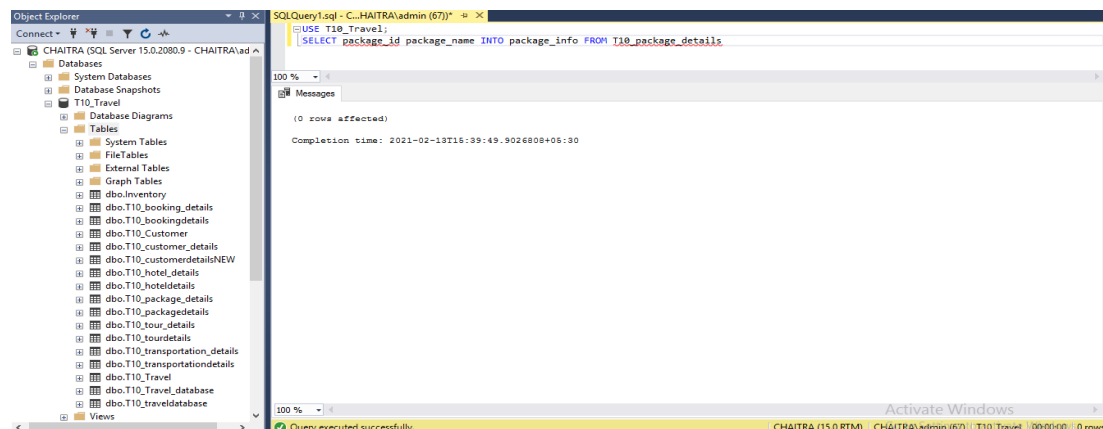
7. Create Table using Select Statement

Query:-

USE T10_Travel;

```
SELECT package_id package_name INTO package_info FROM T10_package_details
```

Output:-



The screenshot shows the SQL Server Enterprise Manager interface. The query window displays the query: `USE T10_Travel; SELECT package_id package_name INTO package_info FROM T10_package_details`. The Results pane shows "(0 rows affected)". The status bar at the bottom indicates "Query executed successfully." and "0 rows".

	name	id	xtype	uid	info	status	base_schema_ver	replinfo	parent_obj	crdate	ftcatid	schema_ver	stats_schema_ver	type	userstat	sysstat	index
--	------	----	-------	-----	------	--------	-----------------	----------	------------	--------	---------	------------	------------------	------	----------	---------	-------

8. Create a table which has derived attribute.

Query:-

```
CREATE TABLE NEW_DETAILS  
(  
    First_Name VARCHAR(50) NOT NULL,  
    Last_Name VARCHAR(60) NOT NULL,  
    Mobile_Number INT NOT NULL,  
    DOB DATE NOT NULL,  
    Age AS DATEDIFF(YEAR, DOB, GETDATE())  
);
```

Output:-

