

AIM:	DDL Commands Database Creation
PROBLEM STATEMENT :	Create a Table and show the relationship between two tables using a foreign key.
Theory :	<p style="text-align: center;">DDL</p> <p>DDL is an abbreviation of Data Definition Language. The DDL Commands in Structured Query Language are used to create and modify the schema of the database and its objects. The syntax of DDL commands is predefined for describing the data. The commands of Data Definition Language deal with how the data should exist in the database. Following are the five DDL commands in SQL:</p> <ul style="list-style-type: none"> • CREATE Command • DROP Command • ALTER Command • TRUNCATE Command • RENAME Command <p style="text-align: center;">CREATE Command</p> <p>CREATE is a DDL command used to create databases, tables, triggers, and other database objects. Syntax to Create a Database: CREATE Database Database_Name; Syntax to create a new table: CREATE TABLE table_name (column_Name1 data_type (size of the column) , column_Name2 data_type (size of the column) , column_Name3 data_type (size of the column) , ... column_NameN data_type (size of the column));</p> <p style="text-align: center;">DROP Command</p> <p>DROP is a DDL command used to delete/remove the database objects from the SQL database. This DDL command can easily remove the entire table, view, or index from the database. Syntax to remove a database: DROP DATABASE Database_Name; Syntax to remove a table: DROP TABLE Table_Name;</p> <p style="text-align: center;">ALTER Command</p>

	<p>ALTER is a DDL command which changes or modifies the existing structure of the database, and it also changes the schema of database objects. We can also add and drop constraints of the table using the ALTER command</p> <p>Syntax to add a new field in the table:</p> <p>ALTER TABLE name_of_table ADD column_name column_definition;</p> <p>TRUNCATE Command</p> <p>TRUNCATE is another DDL command which deletes or removes all the records from the table.</p> <p>Syntax of TRUNCATE command</p> <p>TRUNCATE TABLE Table_Name;</p>
Queries:	<pre> CREATE DATABASE savapa; use savapa; CREATE TABLE Orderde(orderID int NOT NULL UNIQUE primary key, CustomerID int, Resturname varchar(225) NOT NULL, employeeID int not null, price int not null, payment_status varchar(225) NOT NULL default 'not completed'); CREATE TABLE Customers(CustomerID int NOT NULL UNIQUE, Customername varchar(225) NOT NULL, phoneno int, address varchar(255) default 'mumbai', Email varchar(225), orderID int, PRIMARY KEY (CustomerID), FOREIGN KEY (orderID) REFERENCES Orderde(orderID)); CREATE TABLE Restur(ResturID int NOT NULL UNIQUE Primary key, Resturname varchar(225) NOT NULL, Rating int CHECK (Rating>=0 AND Rating<=5), Varieties varchar(225), Typ_of_food varchar(225), Timing varchar(255), orderID int, FOREIGN KEY (orderID) REFERENCES Orderde(orderID)); CREATE TABLE Delivery_Person(employeeID int not null unique primary key, delname varchar(255) default 'ramesh', </pre>

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phoneno int,
Rating int CHECK (Rating>=0 AND Rating<=5),
Shift_hr int not null default 8,
orderID int,
FOREIGN KEY (orderID) REFERENCES Orderde(orderID)
);
INSERT INTO Orderde values (1345,10,'taj hotel',20,20000,'completed');
INSERT INTO Orderde values (1356,11,'raj hotel',21,21,'completed');
INSERT INTO Orderde values (1398,12,'kaj hotel',22,200,'completed');
INSERT INTO Orderde values (1340,13,'maj hotel',23,2000,'completed');
INSERT INTO Orderde values (1349,14,'Roj hotel',24,20,'completed');
INSERT INTO Orderde values (1369,15,'Raz hotel',25,69,'fully completed');
INSERT INTO Restur values (1,'taj hotel',4.5,'Indian','Poha','1:00PM',1345);
INSERT INTO Restur values (2,'raj hotel',4,'conti','Baked Pesto Pasta.','10:00PM',1356);
INSERT INTO Restur values (3,'kaj hotel',3.5,'maxican','Machaca','11:00PM',1398);
INSERT INTO Restur values (4,'maj hotel',2.5,'russian','Kasha','12:00PM',1340);
INSERT INTO Restur values (5,'Roj hotel',1.5,'japp','Kinpira Gobo','1:00AM',1349);
INSERT INTO Restur values (6,'Raz hotel',0.5,'ghar','Chapal','Roj',1369);
INSERT INTO Customers values(10,'sahil',87971838,'vashi','sahil.ved@gmail.com',1345);
INSERT INTO Customers
values(11,'vansh',879718398,'unkown','vansh@gmail.com',1356);
INSERT INTO Customers values(12,'yash',87971834,'andheri','yash@gmail.com',1398);
INSERT INTO Customers values(13,'me',87971338,'SOBO','pranay@gmail.com',1340);
INSERT INTO Customers values(14,'you',8797138,'My
heart','tellyourname@gmail.com',1349);
INSERT INTO Customers values(15,'and our loneliness',6969696,'place not
mentionables','loneliness.hatao@gmail.com',1369);
INSERT INTO Delivery_Person values(20,'ram',87247923,2,8,1345);
INSERT INTO Delivery_Person values(21,'sham',8727843,3,8,1356);
INSERT INTO Delivery_Person values(22,'kam',872479823,4,8,1398);
INSERT INTO Delivery_Person values(23,'rod',87247983,5,8,1340);
INSERT INTO Delivery_Person values(24,'red',8722387,3,8,1349);
INSERT INTO Delivery_Person values(25,'kum kaj',8724823,2.5,8,1369);
SELECT * FROM savapa.Customers;
SELECT * FROM savapa.Delivery_Person;
SELECT * FROM savapa.Orderde;
SELECT * FROM savapa.Restur;

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Customer Table:

CustomerID	Customername	phoneno	address	Email	orderID
10	sahil	87971838	vashi	sahil.ved@gmail.com	1345
11	vansh	879718398	unkown	vansh@gmail.com	1356
12	yash	87971834	andheri	yash@gmail.com	1398
13	me	87971338	SOBO	pranay@gmail.com	1340
14	you	8797138	My heart	tellyourname@gmail.com	1349
15	and our loneliness	6969696	place not mentionables	loneliness.hatao@gmail.com	1369
NULL	NULL	NULL	NULL	NULL	NULL

Delivery Person Table:

employeeID	delname	phoneno	Rating	Shift_hr	orderID
20	ram	87247923	2	8	1345
21	sham	8727843	3	8	1356
22	kam	872479823	4	8	1398
23	rod	87247983	5	8	1340
24	red	8722387	3	8	1349
25	kum kaj	8724823	3	8	1369
NULL	NULL	NULL	NULL	NULL	NULL

Order Details Table:

orderID	CustomerID	Resturname	employeeID	price	payment_stat...
1340	13	maj hotel	23	2000	completed
1345	10	taj hotel	20	20000	completed
1349	14	Roj hotel	24	20	completed
1356	11	raj hotel	21	21	completed
1369	15	Raz hotel	25	69	fully completed
1398	12	kaj hotel	22	200	completed
NULL	NULL	NULL	NULL	NULL	NULL

Restaurants Details Table:

[illegible]

Conclusion:

From this experiment I concluded that we could create table using CREATE keyword and we could insert rows using INSERT keyword. We also learned about foreign key and primary key and keywords like “NOT NULL”, “DEFAULT”, “CHECK”. We also learned about different data type present in SQL