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Program 1 . Create a Table and show the relationship between two tables using a foreign key. What is Data Definition Language (DDL)? Data Definition Language (DDL) is used to create and modify the structure
foreign key. What is Data Definition Language (DDL)?
of objects in a database using predefined commands and a specific syntax. These database objects include tables, sequences, locations, aliases, schemas and indexes. 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 is the five DDL commands in SQL: • CREATE Command • ALTER Command • TRUNCATE Command • TRUNCATE Command CREATE Command 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:

```
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 )
);
```

DROP Command

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;

ALTER Command

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 Syntax to add a new field in the table:

ALTER TABLE name_of_table ADD column_name column_definition;

TRUNCATE Command

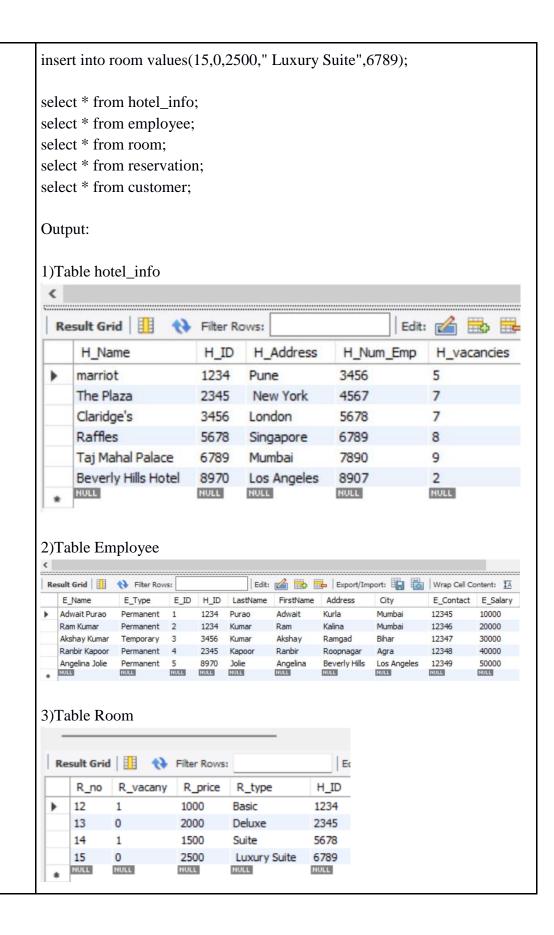
TRUNCATE is another DDL command which deletes or removes all the records from the table.

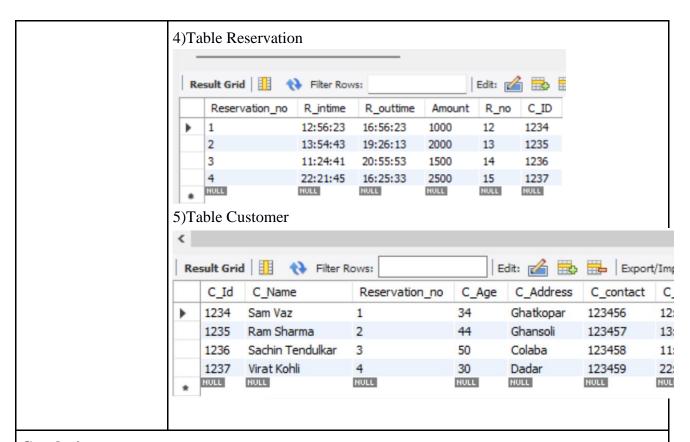
Syntax of TRUNCATE command TRUNCATE TABLE Table_Name;

Queries	CREATE DATABASE Hotel;
	use Hotel
	CREATE TABLE Hotel (
	H_Name Varchar(120) Not Null,
	H_ID int Primary key,
	H_Address Varchar(200) Not Null,
	H_Num_Emp int,
	H_vacancies int
);
	' '
	CREATE TABLE Employee (
	E_Name Varchar(70),
	E_Type Varchar(50),
	· -
	E_ID int primary key,
	H_ID int,
	foreign key(H_ID) references Hotel(H_ID),
	LastName varchar(255),
	FirstName varchar(255),
	Address varchar(255),
	City varchar(255),
	E_Contact int,
	E_Salary int not null check(E_salary>0)
);
	create table Room(
	R_no int primary key,
	R_vacany boolean default true,
	R_price int not null,
	R_type varchar(30),
	-71 (-77)

```
H ID int references Hotel(H ID)
);
create table Reservation(
Reservation_no int primary key,
R_intime datetime not null,
R outtime datetime,
Amount int not null check(Amount>0),
R_no int references Room(R_no),
C_ID int references Customer(C_ID)
CREATE TABLE Customer(
C_Id int primary key,
C_Name Varchar(50) Not Null,
Reservation_no int,
C_Age int,
C_Address Varchar(70) Not Null,
C contact int,
C cin time int,
C cout t int,
foreign key(Reservation_no) references Reservation(Reservation_no)
);
alter table hotel rename hotel_info;
insert into hotel info values("marriot",1234,"Pune",3456,5);
insert into hotel info values("The Plaza", 2345, "New York ", 4567.7);
insert into hotel_info values("Claridge's",3456,"London",5678,7);
insert into hotel_info values("Raffles",5678,"Singapore",6789,8);
insert into hotel_info values("Taj Mahal Palace",6789,"Mumbai ",7890,9);
insert into hotel_info values("Beverly Hills Hotel",8970,"Los
Angeles",8907,2);
insert into employee values("Adwait
Purao", "Permanent", 1,1234, "Purao", "Adwait", "Kurla", "Mumbai", 73046717
44,10000);
insert into employee values("Ram
```

```
Kumar", "Permanent", 2,1234, "Kumar", "Ram", "Kalina", "Mumbai", 12346, 20
000):
insert into employee values("Akshay
Kumar", "Temporary", 3,3456, "Kumar", "Akshay", "Ram
chowk", "Ramgad", 12347, 30000);
insert into employee values("Ranbir
Kapoor", "Permanent", 4,2345, "Kapoor", "Ranbir", "Roopnagar", "Agra", 1234
8,40000);
insert into employee values("Angelina
Jolie", "Permanent", 5,8970, "Jolie", "Angelina", "Beverly Hills", "Los
Angeles",12349,50000);
alter table customer modify C_cin_time time;
alter table customer modify C_cout_t time;
alter table reservation modify R_intime time;
alter table reservation modify R_outtime time;
insert into reservation values(1,"12:56:23","16:56:23",1000,12,1234);
insert into reservation values(2,"13:54:43","19:26:13",2000,13,1235);
insert into reservation values(3,"11:24:41","20:55:53",1500,14,1236);
insert into reservation values(4,"22:21:45","16:25:33",2500,15,1237);
insert into customer values(1234, "Sam
Vaz",1,34,"Ghatkopar",123456,"12:56:23","16:56:23");
insert into customer values(1235,"Ram
Sharma", 2,44, "Ghansoli", 123457, "13:54:43", "19:26:13");
insert into customer values(1236, "Sachin
Tendulkar", 3,50, "Colaba", 123458, "11:24:41", "20:55:53");
insert into customer values(1237,"Virat
Kohli",4,30,"Dadar",123459,"22:21:45","16:25:33");
insert into room values(12,1,1000,"Basic",1234);
insert into room values(13,0,2000,"Deluxe",2345);
insert into room values(14,1,1500,"Suite",5678);
```





Conclusion

In this experiment, I learned to create tables on mySQL software . we could create table using CREATE keyword and we could insert rows using INSERT keyword. We also learned about foreign key and primary key. We also learnet about keywords like not null , default and check .I also learned about different types of data types and used them in my code.