

```
create database phase1;
go
use phase1
go

create table occupation(
    occupationID int primary key not null,
    occupationName varchar(30)
)
go
create table customer(
    customerID int primary key,
    customerName varchar(30),
    age int not null,
    city varchar(30) not null,
    occupationID int foreign key references occupation(occupationID)
);
go
create table data_table(
    customerID int foreign key references customer(customerID),
    hobbies varchar(30),
    genre varchar(30),
    food varchar(30)
);
go

insert into occupation(occupationID, occupationName)
values(001,'Software Engineer'),
      (002,'Doctor'),
      (003,'Proffessor'),
      (004,'Architect'),
      (005,'Manager');
go
insert into customer(customerID,customerName,age, city, occupationID)
values (1,'Abhinav', 23, 'Thrissur',001),
      (2,'Akshay', 24, 'Palakad',003),
      (3,'Robin', 40, 'Thrissur',004),
      (4,'Andrew', 28, 'Kochi',002),
      (5,'Yash', 30, 'Delhi',005),
      (6,'Peter', 33, 'New York',001);
go
insert into data_table(customerID, hobbies, genre, food)
values(1,'Reading','horror', 'pizza'),
      (3,'Reading','horror', 'pizza'),
      (1,'Painting','romcom', 'Biriyani'),
      (1,'Cycling','action', 'pasta'),
      (2,'Dancing','sci-fi', 'butter chicken'),
      (2,'Painting','horror', 'Burger'),
      (3,'Cycling','action', 'Biriyani'),
```

```
(4, 'Reading', 'horror', 'pasta'),  
(5, 'Dancing', 'comedy', 'butter chicken'),  
(5, 'Painting', 'horror', 'Burger'),  
(5, 'Reading', 'action', 'ice cream'),  
(6, 'Reading', 'horror', 'ice cream');  
go
```

-----1----- hobby that most client prefer

```
select top 1 hobbies as 'most preferred hobby' from data_table  
group by hobbies  
order by count(*) desc
```

-----2-----

```
select customer.customerName, count(food) as 'favorite food'  
from data_table  
join customer on data_table.customerID = customer.customerID  
group by customerName  
having count(food) >1;
```

-----3-----

```
select customerName, age, city  
from customer  
join data_table on customer.customerID = data_table.customerID  
where age >= 40  
and genre = 'Horror'  
AND food = 'Pizza'
```