

```

create database restaurant_order_system1110;

create table customers
(
    custid int identity(1,1) primary key ,
    custname nvarchar(40) not null,
    gender nchar(1) not null,
    email varchar(30)
)

create table category
(
    cateid int primary key,
    catename nvarchar(30) not null
)

create table product
(
    pid char(4) primary key,
    pname nvarchar(30) not null unique,
    price money not null check(price>0),
    descr nvarchar(300) not null,
    cateid int foreign key references category(cateid)
)

create table orders
(
    oid int primary key,
    orderdate datetime not null default(getdate()),
    custid int foreign key references customers(custid)
)

create table phone
(
    custid int foreign key references customers(custid),
    phone char(11) unique
);

create table shipping
(
    shipid int primary key,
    status bit not null,
    time datetime default (getdate()),
    oid int foreign key references orders(oid)
);

create table payment

```

```
(
payid int primary key,
amount money check(amount>0) not null,
paystatus bit not null,
oid int foreign key references orders (oid)
)
```

```
create table order_detail
(
pid char(4) foreign key references product(pid),
oid int foreign key references orders(oid),
order_qty int not null default (1),
primary key (pid,oid)
)
```

-----Alter-----

```
alter table customers
add nid char(20)
```

```
alter table customers
alter column nid char(14) not null
```

-----

```
alter table product
add brandname varchar(30)
```

```
alter table product
alter column brandname varchar(40) not null
```

```
alter table product
drop column brandname
```

-----

```
alter table customers
add check (nid != '00000000000000')
```

```
alter table customers
add default ('unknown') for nid
```

```
alter table customers
add constraint nid_uq unique(nid)
```

```
alter table customers
drop constraint nid_uq
```

-----

```
alter table customers
drop column nid
```

```
alter table customers
drop constraint CK__customers__nid__2A4B4B5E
```

```
alter table customers
```

```
drop constraint DF__customers__nid__2B3F6F97
```

```
alter table customers  
drop column nid
```

```
-----  
alter table shipping  
drop constraint FK__shipping__oid__20C1E124
```

```
alter table shipping  
add foreign key(oid) references orders(oid)
```

```
-----  
insert into customers  
values ('ali salah', 'm', 'ali@yahoo.com');
```

```
insert into customers (custname,gender,email)  
values ('mai samy', 'f', 'mai@gmail.com')
```

```
insert into customers (custname, gender)  
values ('karim', 'm')
```

```
insert into customers  
values ('ahmed', 'm', null)
```

```
insert into customers  
values ('ahmed')
```

```
select * from customers
```

```
-----  
insert into orders  
values (20,default,2)
```

```
insert into orders (oid,custid)  
values ('21', '3')
```

```
insert into orders  
values ('22',default, '5')
```

```
insert into orders (oid,custid)  
values ('23', '1')
```

```
-----  
insert into category  
values ('4', 'pizza'),  
('5', 'sandwich'),  
('6', 'crep')
```

```
select * from category
```

```
-----  
select * from product
```

```
insert into product  
values  
('3', 'chiken shawerma', 35, 'asdssss', '4'),
```

```
('4','beef shawerma',30,'dasdas','4'),  
('5','chiken burger','25','dasdsa','5'),  
('6','beef burger','20','dasdas','6')
```

```
-----  
  
select * from customers
```

```
update customers  
set custname='mai'  
where custid=4
```

```
update customers  
set email='ali@gmail.com'  
where custname='ail salah' and email = 'ali@yahoo.com'
```

```
update customers  
set custname='mona khaled', email='mk@gmail.com'  
where custid=3
```

```
-----  
  
select * from product
```

```
update product  
set price = price*0.1+price
```

```
-----  
  
delete from product  
where pid=4
```

```
select * from product
```

```
update customers  
set email=null  
where custid= 3
```

```
update product  
set pname= ' '  
where pid=3
```

```
drop table product
```

```
delete from product
```

```
select * from product
```

```
-----SELECT-----
```

```
select * from customer  
select * from product
```

```
*****
```

```
select custname,email  
from customer
```

```
select pname,price,catid
from product
```

\*\*\*\*\*

```
select pname as 'product name', pdesc as 'description'
from product
```

```
select custname as 'customer name'
from customer
```

\*\*\*\*\*

```
select price from product
```

```
select distinct price
from product
```

```
select catid from product
```

```
select distinct catid
from product
```

\*\*\*\*\*

```
select * from product
where catid='4'
```

```
select pname, price
from product
where price > '20'
```

\*\*\*\*\*

```
select * from product
order by price
```

```
select * from product
order by price desc
```

\*\*\*\*\*

```
select * from orders
```

```
select * from orders
order by orderdate
```

```
select * from orders
```

```
order by orderdate desc
```

```
select * from product  
order by price ,catid
```

```
select * from product  
order by price , catid desc
```

```
*****
```

```
+, -, *, /
```

```
select * from product
```

```
select price, price+100 as 'price after add 100'  
from product
```

```
select price*0.1+price as 'increase 10 %'  
from product
```

```
*****
```

```
<, >, =, <=, !=, <>, =
```

```
select * from product
```

```
select * from product  
where price >'70'
```

```
select * from product  
where price >='70'
```

```
select * from product  
where price <>'35'
```

```
*****
```

```
or /and /not
```

```
select * from product
```

```
select * from product  
where price='25' or catid='3'
```

```
select * from product  
where price='25' and catid='3'
```

```
*****
```

```
is, in, between, like
```

```
select * from customer
```

```
select * from customer
where email is null
```

```
select * from customer
where email is not null
```

```
*****between*****
```

```
select * from product
where price between '50' and '130'
```

```
select * from product
where price not between '50' and '130'
```

```
select * from orders
where orderdate between '1-1-2019' and '12-1-2020'
```

```
select * from orders
where orderdate not between '1-1-2019' and '12-1-2020'
```

```
*****in*****
```

```
select * from product
where price in ('20','130')
```

```
select * from product
where price not in ('35','130')
```

```
select * from orders
where orderdate in ('1-1-2019' , '12-1-2020' )
```

```
select * from orders
where orderdate not in ('1-1-2019' , '12-1-2020' )
```

```
*****
like(%,_)
```

```
select * from product
```

```
select * from product
where pname= 'chicken'
```

```
select * from product
where pname like 'chicken%'
```

```
select * from product
where pname not like 'chicken%'
```

```
select * from product
```

```
where pname like '%shawerma'
```

```
select * from product
where pname like '%chocolate%'
```

```
select * from product
where pname not like '%chocolate%'
```

```
***** _ *****
```

```
select * from product
```

```
select * from product
where pname like 'sandw_ch'
```

```
select * from product
where pname not like 'sandw_ch'
```

```
select * from product
where pname like 'cr__'
```

```
select * from category
where cname like '%_r____'
```

```
select * from orders
where orderdate like '%2019%'
```

```
*****exercise*****
```

```
Create Table Employees
```

```
(
Emp_ID int Primary Key ,
Emp_Name varchar (50) Not Null ,
Salary money Not Null ,
FUN varchar (20) Not Null ,
Phone varchar (20) ,
Address nvarchar (50) Not Null ,
) ;
```

```
select * from Employees
```

```
Insert Into Employees
```

```
Values
```

```
('1','omar','3000','sales','0112','cairo'),
('2','amal','5000','marketing',null,'giza'),
('3','mona','6000','services','014255','nasrcity'),
('4','hamza','3500','sales','02145','6october'),
('5','ali','4000','services',null,'zamlek'),
('6','alia','3000','sales','01205','6october'),
('7','zeinab','7000','finance','02154','giza'),
```



```
( '8' , 'aly' , '4500' , 'marketing' , null , 'cairo' );
```

```
Select Emp_ID , Emp_Name , Salary  
From Employees ;
```

```
Select Emp_ID , Emp_Name , Salary  
From Employees  
Where Emp_ID = 3 ;
```

```
Select *  
From Employees  
Where Salary >= 5000 ;
```

```
Select Emp_ID , Emp_Name , Salary  
From Employees  
Where Emp_ID = '3' and Emp_Name = 'Hamza' ;
```

```
Select Emp_ID , Emp_Name , Salary  
From Employees  
Where Emp_ID = 5 or Salary > 5000 ;
```

```
Select Emp_ID , Emp_Name , Salary  
From Employees  
Where Emp_ID = 5 OR Salary >= 5000 ;
```

```
Select Emp_ID , Emp_Name , Salary  
From Employees  
Where Emp_ID IN (1 , 3 , 5) ;
```

```
Select *  
From Employees  
Where Emp_Name not IN ( 'Ali' , 'Omar' , 'Amal' ) ;
```

```
Select *  
From Employees  
Where Emp_Name Like 'A%' ;
```

```
Select *  
From Employees  
Where Emp_Name Like 'Z%B' ;
```

```
Select *  
From Employees  
Where Emp_Name Like 'Al_' ;
```

```
Select Emp_Name , FUN , Address , phone  
From Employees  
Where Phone Is Null ;
```

```
Select Emp_Name , FUN , Phone , Address  
From Employees  
Where Phone Is Not Null ;
```

```
-----  
Select Emp_ID , Emp_Name , Salary  
From Employees  
Where Salary Between 4000 And 6000 ;  
-----
```