

Relational Schema)

```
mysql> describe customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	char(8)	NO	PRI	NULL	
name	varchar(15)	NO		NULL	
address	varchar(100)	YES		NULL	
phone	int(10)	YES		NULL	
email	varchar(25)	NO	UNI	NULL	

5 rows in set (0.01 sec)

```
mysql> describe orders;
```

Field	Type	Null	Key	Default	Extra
o_id	char(8)	NO	PRI	NULL	
o_date	date	NO		NULL	
total	decimal(5,2)	NO		NULL	
cust_id	char(8)	NO	MUL	NULL	

4 rows in set (0.00 sec)

```
mysql> describe prod_type;
```

Field	Type	Null	Key	Default	Extra
p_id	char(8)	NO	PRI	NULL	
description	varchar(100)	YES		NULL	
base_price	decimal(5,2)	NO		NULL	
stock	int(11)	NO		0	
curr_price	decimal(5,2)	NO		NULL	

5 rows in set (0.00 sec)

```
mysql> describe order_li;
```

Field	Type	Null	Key	Default	Extra
o_id	char(8)	NO	PRI	NULL	
prod_id	char(8)	NO	PRI	NULL	
unit_price	decimal(5,2)	NO		0.00	
quantity	int(11)	NO		0	

4 rows in set (0.01 sec)

```
mysql> describe shipment;
```

Field	Type	Null	Key	Default	Extra
s_id	char(8)	NO	PRI	NULL	
s_date	date	NO		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> describe shipment_li;
```

Field	Type	Null	Key	Default	Extra
quantity	int(11)	NO		0	
s_id	char(8)	NO	MUL	NULL	
p_id	char(8)	NO		NULL	

```
3 rows in set (0.00 sec)
```

DDL)

```
create table customer(  
  cust_id char(8) not null primary key,  
  name varchar(15) not null,  
  address varchar(30) not null,  
  phone integer(10),  
  email varchar(25) unique not null)engine=innodb;
```

```
create table orders(  
  o_id char(8) not null primary key,  
  o_date date not null,  
  total float(5,2) not null default 0,  
  cust_id char(8) not null,  
  foreign key (cust_id) references customer(cust_id))  
engine=innodb;
```

```
create table prod_type(  
  p_id char(8) not null primary key,  
  description varchar(100),  
  base_price decimal(5,2) not null,  
  curr_price decimal(5,2) not null,  
  quantity int not null default 0)  
engine=innodb;
```

```
create table order_li(  
  o_id char(8) not null,  
  prod_id char(8) not null,  
  unit_price decimal(5,2) not null default 0,  
  quantity int not null default 0,  
  foreign key (o_id) references orders(o_id),  
  foreign key (prod_id) references prod_type(p_id),
```

```
primary key (o_id, prod_id)  
)engine=innodb;
```

```
create table shipment (  
s_id char(8) not null primary key,  
s_date date not null)  
engine=innodb;
```

```
create table shipment_li(  
quantity int not null default 0,  
s_id char(8) not null,  
p_id char(8) not null,  
foreign key (s_id) references shipment(s_id))  
engine=innodb;
```