

```
create table customer(  
  cid int(10) auto_increment not null,  
  name char(20) not null,  
  email char(30),  
  phone int(10) not null,  
  primary key(cid)  
);
```

```
create table waiter(  
  eid int(5),  
  ename char(20),  
  ephone char(20),  
  primary key(eid)  
);
```

```
create table menu(  
  itemid int(10) auto_increment not null,  
  price int(5) not null,  
  primary key(itemid)  
);
```

```
create table bill(  
  total int(5),  
  eid int(5),  
  cid int(10),  
  bid int(5),  
  ts datetime,  
  foreign key(cid) references customer(cid),  
  foreign key(eid) references waiter(eid),  
  primary key(bid)  
);
```

```
create table orders(  
  bid int(5),  
  itemid int(10),  
  quantity int(5),  
  foreign key(bid) references bill(bid),  
  foreign key(itemid) references menu(itemid)  
);
```

////////////////////////////////////

```
insert into customer values(1,'ABC','abc@hk.com',97646);  
OK, 1 row affected (0.04 sec)
```

```
insert into customer values(2,'PQR','abc@hgggk.com',97666);  
OK, 1 row affected (0.09 sec)
```

```
insert into waiter values(1,'RAMU',7437);  
OK, 1 row affected (0.06 sec)
```

```
insert into menu values(100, 500);
OK, 1 row affected (0.07 sec)
```

```
insert into menu values(200,1000);
OK, 1 row affected (0.06 sec)
```

```
insert into bill values(1500, 1,1,1,'2018-01-05 11:48:02');
OK, 1 row affected (0.06 sec)
```

```
insert into orders values(1,100,1);
OK, 1 row affected (0.12 sec)
```

```
insert into orders values(1,200,1);
OK, 1 row affected (0.07 sec)
```

```
////////////////////////////////////
```

```
create view vw_customerSnapshot as select * from customer where cid=(select cid from bill group by cid order
by(count(cid)) desc limit 1);
```

```
create view vw_orderSnapshot as select * from menu where itemid=(select itemid from orders group by itemid order by
count(itemid) desc limit 1);
////////////////////////////////////
```

```
delimiter $$
CREATE procedure
GetOrderTimeElapsed(CustomerID int)
BEGIN
SELECT bid,(now()-ts)/60 AS elapse_mins
FROM bill
WHERE cid = CustomerID ;
END $$
delimiter ;
////////////////////////////////////
delimiter $$
CREATE procedure
GetOrder(CustomerID int)
BEGIN
SELECT o.bid,o.itemid
FROM orders AS o,bill AS b
WHERE o.bid=b.bid AND b.cid=CustomerID;
END $$
delimiter ;
```

```
call GetOrder(1);
////////////////////////////////////
```

```
delimiter $$
CREATE procedure
sp_GenerateBill(IN OrderID int, OUT BillAMT int)
BEGIN
declare tempvar int;
SELECT total into tempvar
FROM bill
WHERE bid=OrderID ;
SET BillAMT = tempvar ;
END $$
delimiter ;
```

```
////////////////////////////////////
```