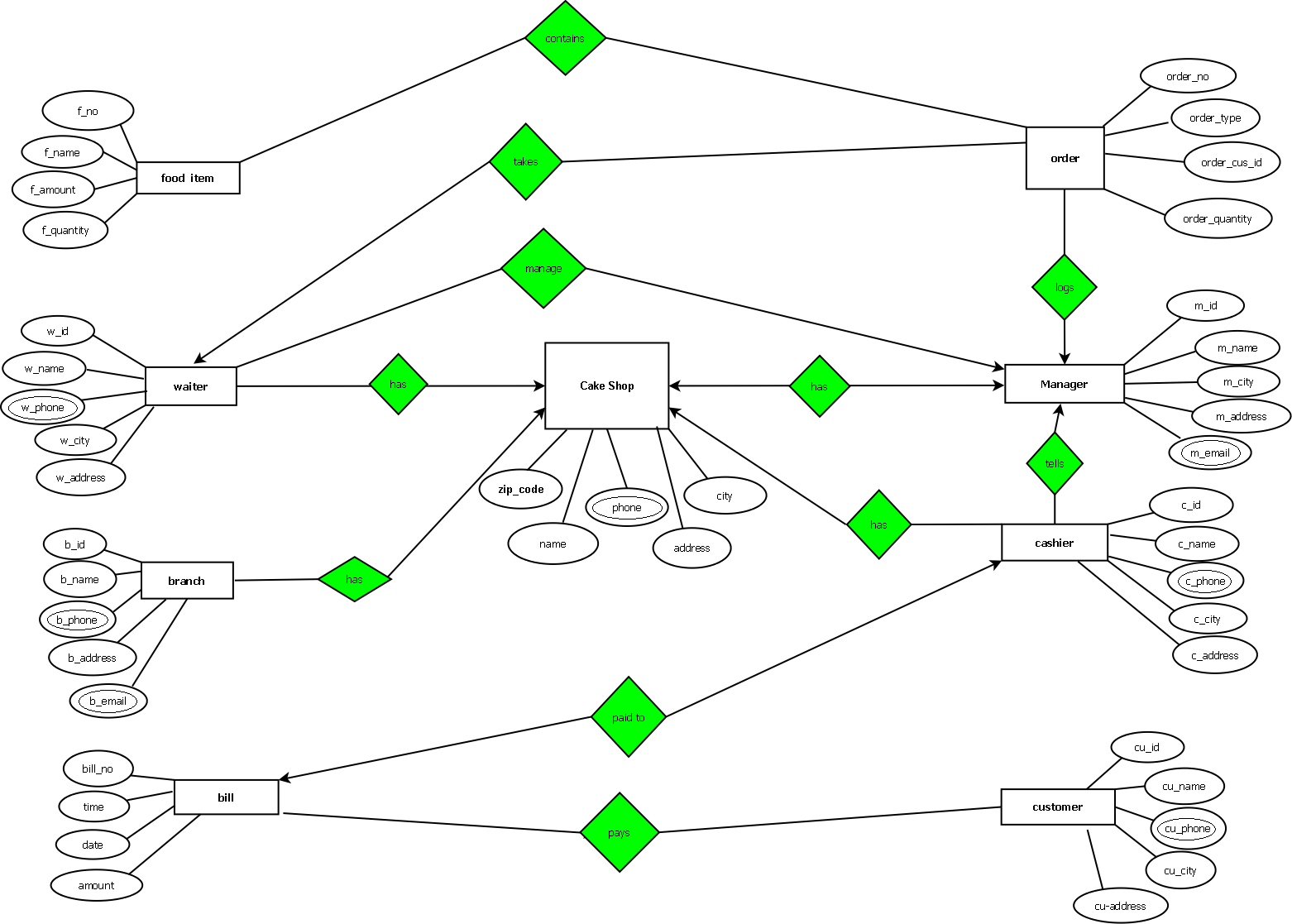


**Project Name : Cake Shop Management System  
  
Course Name : Introduction To Database  
  
Course Instructor : SIFAT RAHMAN AHONA   
  
Section : D  
  
Group No : 10  
  
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 Name ID  
  
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**Content List :**

* **Introduction**
* **Case Study**
* **ER Diagram**
* **Normalization**
* Table Creation
* Data Insertion
* Query Writing
* Conclusion
* **Introduction** : Cake Shop Management System is Totally Computer Based Software Application to Maintain Day to Day Transactions in a Cake Shop.This Software Helps to Stores All Cake Shop Items With Catergory And Sub-Category.  
  It Also Maintains Record Of Purchase And Sales. It Maintains Details of Supplier. This Application Generates Reports Of Purchase, Sales And Stock.The System Reflects Standard Structure So That Any Inventory Management System Can Implements This System Easily in Their Existing System.The System Works To Reduce Human Efforts. Due to Totally Computerized Occurance of Error is Less And Works Smothly.  
    
  It is User Friendly System.In Our Project (Cake Shop Management System) Was Created By Using The Concept Of DBMS
* Case Study : In a Cake Shop We Use Cake Shop Management System. A Cake Shop is Divided in Many Catagories. A Cake Shop Has many Branch and a branch has only one shop.the shop is identified by zip\_code. The shop also stores name, phone, city . A branch is identified by b\_id, b\_nam, b\_address, b\_email. The Shop has many Manager With Manage m\_id, m\_name, m\_phone, m\_city, m\_address, m\_email and also many manager can work in many shop. A shop exactly one order are contain from a food item with its order\_no, order\_type, order\_cus\_id,order\_quantity and a food item can contains only one order to identify a food item in a shop store f\_no along with f\_name, f\_amount, f\_quantity.A shop has many waiter with identified by w\_id, w\_name, w\_city, w\_phone, w\_address. But only one waiter are working only one shop.Also a waiter can take many order at a time and many order is taken by exactly one waiter. A manager logs many order in that time a order is logs by exactly one manager. After eating the food items a customer pay exactly one bill with its b\_no, b\_email, date, vat, amount, time a bill also paid by only one customer. The customer is identified by cu\_id, cu\_name, cu\_city, cu\_adress, cu\_phone. A bill is paid by ,many cashier and a cashier is receiving many bill. A cashier identified by c\_id.a manager manage many waiter but a waiter is manage less than the one a manager. The shop also store cashier c\_name, c\_phone, c\_age, c\_city. In a shop there has many cashier but a cashier only can work exactly one shop. A cashier tells many information only one manager and a manager also tells the information to many cashier related to the shop.
* **ER Diagram :**



* **Normalization**Food Item**----------1----------Contains----------1----------** Order  
  Contains : (f\_no,f\_name,f\_amount,f\_quantity,order\_no,order\_type,order\_cus\_id,  
  order\_quantity)1NF:
* No Multivalued Attributes  
    
  2NF:
* f-no,f\_name,f\_amount,f\_quantity,order\_no
* order-no,order\_type, order\_cu\_id,order\_quantity3NF:
* f-no,f\_name,f\_amount,f\_quantity,order-no
* order-no,order\_type, order\_cu\_id,order\_quantityTable 1
* f-no,f\_name,f\_amount,f\_quantity,order-no
* order-no,order\_type, order\_cu\_id,order\_quantity
* Waiter----------🡪----------Takes----------1----------Order  
    
    
  Takes (w-id,w\_name,w\_phone,w\_city,w\_address,order-no,order\_type,order\_cu\_id,order\_quantity)  
    
  1NF:
* w\_phone is a Multivalued Attribute  
    
  2NF:
* w-id,w\_name,w\_phone,w\_city,w\_address
* order-no,order\_type,order\_cu\_id,order\_quantity,w-id  
    
  3NF:
* w-id,w\_name,w\_phone,ww-id
* order-no,order\_type,order\_cu\_id,order\_quantity,w-id
* ww-id,w\_city,w\_address  
    
  Table 2:
* w-id,w\_name,w\_phone,ww-id
* order-no,order\_type,order\_cu\_id,order\_quantity,w-id
* ww-id,w\_city,w\_address
* Waiter----------1----------Manage---------🡪----------Manager  
    
  Manage (w-id,w\_name,w\_phone,w\_city,w\_address,  
  m-id,m\_name,m\_email, m\_city ,m\_address, ,m\_phone)  
    
  1NF:
* w\_phone and m\_email Multivalued Attributes  
    
  2NF:
* w-id,w\_name,w\_phone,w\_city,w\_address
* m-id,m\_name,m\_email, m\_city ,m\_address, ,m\_phone,w-id  
    
  3NF:
* w-id,w\_name,w\_phone,ww-id
* m-id,m\_name,m\_email, mm-id,m\_phone,w-id
* ww-id,w\_city,w\_address
* mm-id,m\_city,m\_address  
    
  Table 3:
* w-id,w\_name,w\_phone,ww-id
* m-id,m\_name,m\_email, mm-id,m\_phone, w-id
* ww-id, w\_city, w\_address
* mm-id,m\_city,m\_address
* Waiter----------1----------Has---------🡪----------Cake Shop  
    
  Has ( w-id, w\_name, w\_phone, w\_city, w\_address, zip-code, name, phone, city, address )  
    
  1NF:
* Phone Multivalued Attribute  
    
  2NF:
* w-id, w\_name, w\_phone, w\_city, w\_address
* zip-code, name, phone, city, address, w-id  
    
  3NF:
* w-id, w\_name, w\_phone, ww-id
* zip-code, name, phone, ac-id, w-id
* ww-id, w\_city, w\_address
* ac-id, address, city  
    
    
  Table 4:
* w-id, w\_name, w\_phone, ww-id
* zip-code, name, phone, ac-id, w-id
* ww-id, w\_city, w\_address
* ac-id, address, city
* Cake Shop---------🡪-----------Has----------🡪-----------Manager  
    
  Has ( zip-code, name, phone, city, address, m-id, m\_name, m\_email, m\_city, m\_address, m\_phone)  
    
  1NF:
* phone and m\_email Multivalued Attributes  
    
  2NF:
* zip-code, name, phone, city, address
* m-id, m\_name, m\_email, m\_city, m\_address, m\_phone
* zm-id, zip-code, m-id  
    
  3NF:
* zip-code, name, phone, ac-id
* m-id, m\_name, m\_email, mm-id, m\_phone
* zm-id, zip-code, m-id
* ac-id, city, address
* mm-id, m\_city, m\_address  
    
  Table 5:
* zip-code, name, phone, ac-id
* m-id, m\_name, m\_email, mm-id, m\_phone
* zm-id, zip-code, m-id
* ac-id, city, address
* mm-id, m\_city, m\_address
* Cake Shop---------🡪----------Has----------1----------Cashier  
    
  Has ( zip-code, name, phone, city, address, c-id, c\_name, c\_phone, c\_city, c\_address )  
    
  1NF:
* phone Multivalued Attribute  
    
  2NF:
* zip-code, name, phone, city, address, c-id
* c-id, c\_name, c\_phone, c\_city, c\_address  
    
  3NF:
* zip-code, name, phone, ac-id, c-id
* c-id, c\_name, c\_phone, cc-id
* ac-id, city, address
* cc-id, c\_city, c\_address  
    
  Table 6:
* zip-code, name, phone, ac-id, c-id
* c-id, c\_name, c\_phone, cc-id
* ac-id, city, address
* cc-id, c\_city, c\_address
* Manager---------🡪----------tells----------1----------Cashier  
    
  tells ( m-id, m\_name, m\_email, m\_city, m\_address, m\_phone, c-id, c\_name, c\_phone, c\_city, c\_address )  
    
  1NF:
* m\_email and m\_phone Multivalued Address  
    
  2NF:
* m-id, m\_name, m\_email, m\_city, m\_address, m\_phone, c-id
* c-id, c\_name, c\_phone, c\_city, c\_address  
    
  3NF:
* m-id, m\_name, m\_email,mm-id , m\_phone, c-id
* c-id, c\_name, c\_phone, cc-id
* mm-id, m\_city, m\_address
* cc-id, c\_city, c\_address  
    
    
  Table 7:
* m-id, m\_name, m\_email,mm-id , m\_phone, c-id
* c-id, c\_name, c\_phone, cc-id
* mm-id, m\_city, m\_address
* cc-id, c\_city, c\_address
* Bill---------🡪----------paid to---------🡪----------cashier  
    
  paid to ( bill-no, time, date, amount, c-id, c\_name, c\_phone, c\_city, c\_address )  
    
  1NF:
* c\_phone Multivalued Attribute  
    
    
  2NF:
* bill-no, time, date, amount
* c-id, c\_name, c\_phone, c\_city, c\_address
* bc-id, bill-no, c\_id  
    
  3NF:
* bill-no, time, date, amount
* c-id, c\_name, c\_phone, cc-id
* bc-id, bill-no, c\_id  
    
    
  Table 8:
* bill-no, time, date, amount
* c-id, c\_name, c\_phone, cc-id
* bc-id, bill-no, c\_id
* Bill----------🡪-----------pays-----------\*-----------customer  
    
  pays ( bill-no, time, date, amount, cu-id, cu\_name, cu\_phone, cu\_city, cu\_address )  
    
  1NF: cu\_phone Multivalued Attributes  
    
    
  2NF:
* bill-no, time, date, amount
* cu-id, cu\_name, cu\_phone, cu\_city, cu\_address, bill-no  
    
    
  3NF:
* bill-no, time, date, amount
* cu-id, cu\_name, cu\_phone, ccu-id, bill-no
* ccu-id, cu\_city, cu\_address  
    
    
  Table 9:
* bill-no, time, date, amount
* cu-id, cu\_name, cu\_phone, ccu-id, bill-no
* ccu-id, cu\_city, cu\_address
* Order----------1----------logs---------🡪----------Manager  
    
  logs ( order-no, order\_type, order\_cu\_id, order\_quantity, m-id, m\_name, m\_email, m\_city, m\_address, m\_phone )  
    
    
  1NF:
* m\_email Multivalued Attribute  
    
    
  2NF:
* order-no, order\_type, order\_cu\_id, order\_quantity
* m-id, m\_name, m\_email, m\_city, m\_address, m\_phone, order-no  
    
    
  3NF:
* order-no, order\_type, order\_cu\_id, order\_quantity
* m-id, m\_name, m\_email, mm-id, m\_phone, order-no
* mm-id, m\_city, m\_address

Table 10:

* order-no, order\_type, order\_cu\_id, order\_quantity
* m-id, m\_name, m\_email,mm-id, m\_phone, order-no
* mm-id, m\_city, m\_address
* Total Table
* f-no,f\_name,f\_amount,f\_quantity,order-no
* ~~order-no,order\_type, order\_cu\_id,order\_quantity~~
* w-id,w\_name,w\_phone,ww-id
* order-no, order\_type, order\_cu\_id, order\_quantity, w-id
* ww-id,w\_city ,w\_address
* ~~w-id, w\_name, w\_phone, ww-id~~
* m-id,m\_name,m\_email, m\_phone, mm-id,, w-id
* ~~ww-id, w\_city, w\_address~~
* mm-id,m\_city,m\_address
* ~~w-id, w\_name, w\_phone, ww-id~~
* zip-code, name, phone, ac-id, w-id
* ~~ww-id, w\_city, w\_address~~
* ac-id, address, city
* ~~zip-code, name, phone, ac-id~~
* ~~m-id, m\_name, m\_email, mm-id, m\_phone~~
* zm-id, zip-code, m-id
* ~~ac-id, city, address~~
* ~~mm-id, m\_city, m\_address~~
* zip-code, name, phone, ac-id, c-id
* c-id, c\_name, c\_phone, cc-id
* ~~ac-id, city, address~~
* cc-id, c\_city, c\_address
* m-id, m\_name, m\_email,mm-id , m\_phone, c-id
* ~~c-id, c\_name, c\_phone, cc-id~~
* ~~mm-id, m\_city, m\_address~~
* ~~cc-id, c\_city, c\_address~~
* bill-no, time, date, amount
* ~~c-id, c\_name, c\_phone, cc-id~~
* bc-id, bill-no, c\_id
* ~~bill-no, time, date, amount~~
* cu-id, cu\_name, cu\_phone, ccu-id, bill-no
* ccu-id, cu\_city, cu\_address
* ~~order-no, order\_type, order\_cu\_id, order\_quantity~~
* m-id, m\_name, m\_email, mm-id, m\_phone, order-no
* ~~mm-id, m\_city, m\_address~~

Final Table:

* f-no,f\_name,f\_amount,f\_quantity,order-no
* w-id,w\_name,w\_phone,ww-id
* order-no, order\_type, order\_cu\_id, order\_quantity, w-id
* ww-id,w\_city ,w\_address
* m-id,m\_name,m\_email, mm-id,m\_phone, w-id
* mm-id,m\_city,m\_address
* zip-code, name, phone, ac-id, w-id
* ac-id, address, city
* zm-id, zip-code, m-id
* zip-code, name, phone, ac-id, c-id
* c-id, c\_name, c\_phone, cc-id
* cc-id, c\_city, c\_address
* m-id, m\_name, m\_email,mm-id , m\_phone, c-id
* bill-no, time, date, amount
* bc-id, bill-no, c\_id
* cu-id, cu\_name, cu\_phone, ccu-id, bill-no
* ccu-id, cu\_city, cu\_address
* m-id, m\_name, m\_email, mm-id, m\_phone, order-no

**Table Creation** :  
  
  
create table order1

(

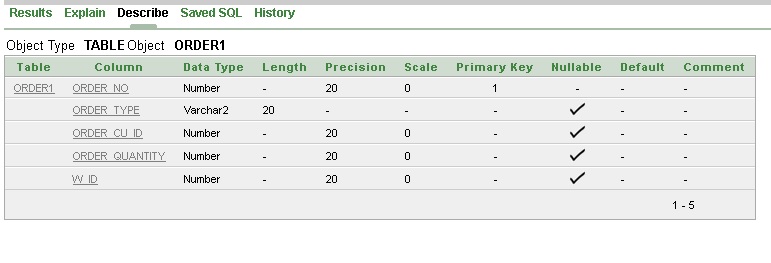
order\_no number(20) constraint o\_on\_pk primary key,

order\_type varchar2(20),

order\_cu\_id number(20),

order\_quantity number(20),

w\_id number(20) constraint o\_w\_fk references waiter(w\_id)

)  
desc order1  
  
  


create table zm\_id

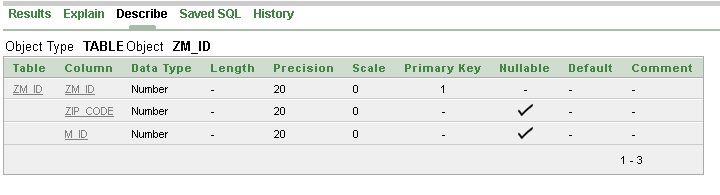
(

zm\_id number (20) constraint zm\_id\_pk primary key,

zip\_code number (20) constraint zm\_zip\_fk references coffee\_shop1(zip\_code),

m\_id number(20) constraint zm\_mid\_fk references manager3(m\_id)

)

Desc zm\_id  
  


create table ww\_id

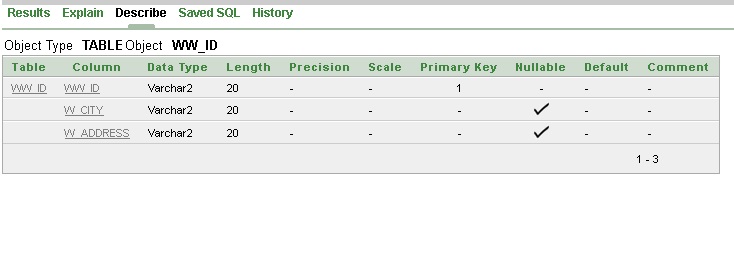
(

ww\_id varchar2(20) constraint ww\_id\_pk primary key,

w\_city varchar2(20),

w\_address varchar2(20)

)

Desc ww\_id  
  


create table waiter

(

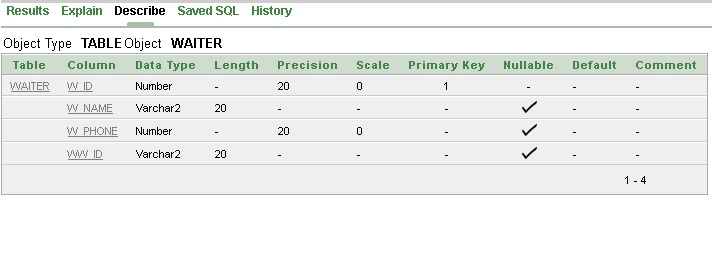
w\_id number(20) constraint waiter\_w\_pk primary key,

w\_name varchar2(20),

w\_phone number(20),

ww\_id varchar2(20) constraint waiter\_ww\_fk references ww\_id(ww\_id)

)

desc waiter  
  


create table mm\_id

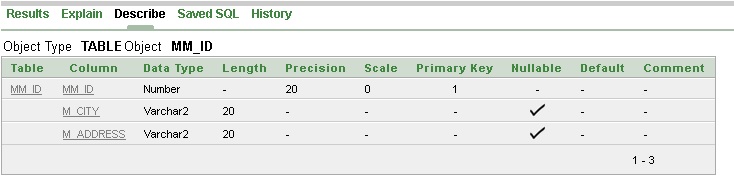
(

mm\_id number(20)constraint mm\_id\_pk primary key,

m\_city varchar2(20),

m\_address varchar2(20)

)

Desc mm\_id  
  
  


create table manager2

(

m\_id number(20) constraint ma\_mid\_pk primary key,

m\_name varchar2(20),

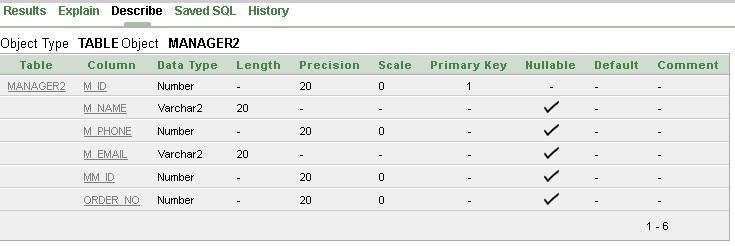
m\_phone number(20),

m\_email varchar2(20),

mm\_id number(20) constraint ma\_mid\_fk references mm\_id(mm\_id),

order\_no number(20) constraint ma\_on\_fk references order1(order\_no)

)

desc manager2  
  
  


create table manager1

(

m\_id number(20) constraint man\_mid\_pk primary key,

m\_name varchar2(20),

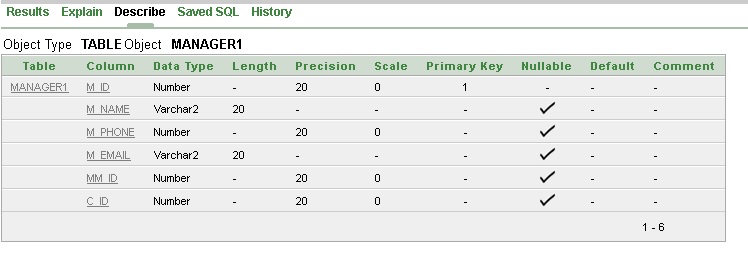
m\_phone number(20),

m\_email varchar2(20),

mm\_id number(20) constraint man\_mid\_fk references mm\_id(mm\_id),

c\_id number(20) constraint man\_cid\_fk references cashier(c\_id)

)

Desc manager1  
  


create table manager3

(

m\_id number(20) constraint manager\_mid\_pk primary key,

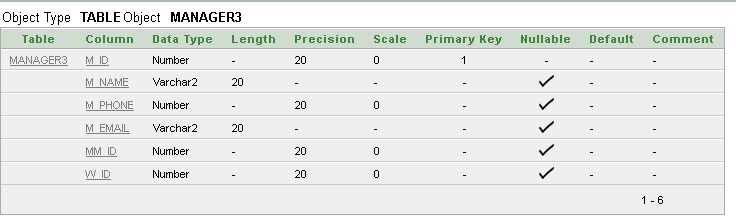
m\_name varchar2(20),

m\_phone number(20),

m\_email varchar2(20),

mm\_id number(20) constraint manager\_mid\_fk references mm\_id(mm\_id),

w\_id number(20) constraint manager\_wid\_fk references waiter(w\_id)

)  
  
desc manager3  
  
  


create table food\_item

(

f\_no number(20) constraint o\_fn\_pk primary key,

f\_name varchar2(20),

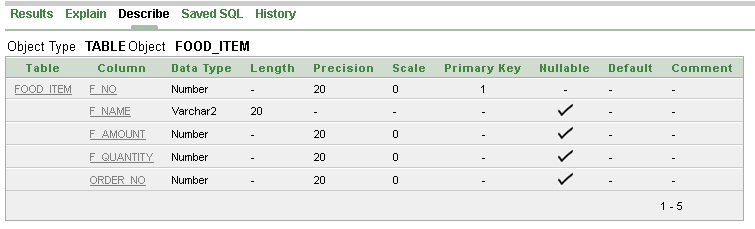
f\_amount number(20),

f\_quantity number(20),

order\_no number(20) constraint f\_on\_fk references order1(order\_no)

)

Desc food\_item



create table customer

(

cu\_id number(20) constraint cus\_cid\_pk primary key,

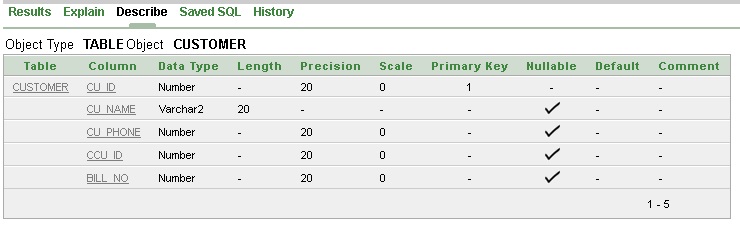
cu\_name varchar2(20),

cu\_phone number(20),

ccu\_id number(20) constraint cus\_cu\_fk references ccu\_id(ccu\_id),

bill\_no number(20) constraint cus\_bn\_fk references bill(bill\_no)

)

desc customer  
  


create table cake\_shop1

(

zip\_code number(20) constraint ca\_zip\_pk primary key,

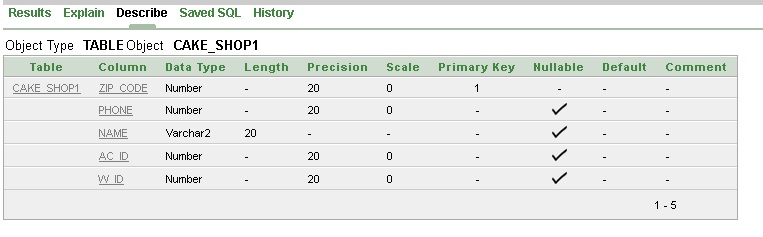
phone number(20),

name varchar2(20),

ac\_id number(20) constraint ca\_acid\_fk references ac\_id(ac\_id),

w\_id number(20) constraint ca\_wid\_fk references waiter(w\_id)

)

desc cake\_shop1  
  


create table cake\_shop

(

zip\_code number(20) constraint cake\_zip\_pk primary key,

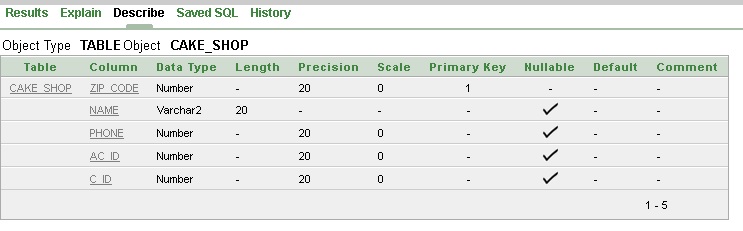
name varchar2(20),

phone number(20),

ac\_id number(20) constraint cake\_acid\_fk references ac\_id(ac\_id),

c\_id number(20) constraint cake\_cid\_fk references cashier(c\_id)

)

desc cake\_shop  
  
  


create table ccu\_id

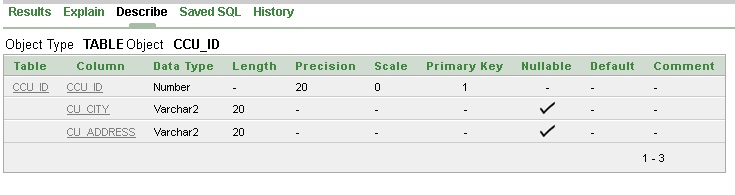
(

ccu\_id number(20) constraint ccu\_id\_pk primary key,

cu\_city varchar2(20),

cu\_address varchar2(20)

)

Desc ccu\_id  
  


create table cc\_id

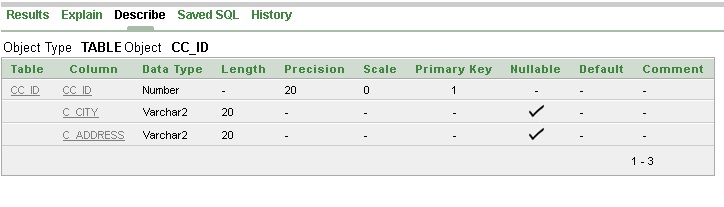
(

cc\_id number(20) constraint cc\_id\_pk primary key,

c\_city varchar2(20),

c\_address varchar2(20)

)

Desc cc\_id  
  


create table cashier

(

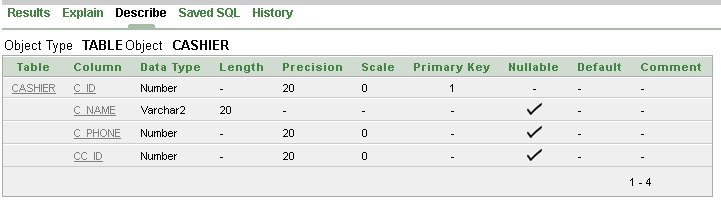
c\_id number(20) constraint c\_cid\_pk primary key,

c\_name varchar2(20),

c\_phone number(20),

cc\_id number(20) constraint c\_ccid\_fk references cc\_id(cc\_id)

)

desc cashier  
  


create table bill\_customer

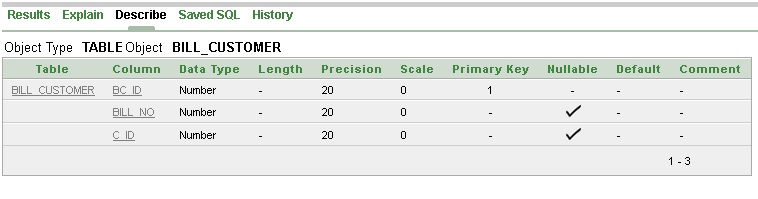
(

bc\_id number(20) constraint bc\_id\_pk primary key,

bill\_no number(20) constraint bc\_bn\_fk references bill(bill\_no),

c\_id number(20) constraint bc\_cid\_fk references cashier(c\_id)

)

Desc bill\_customer  
  
  


create table bill

(

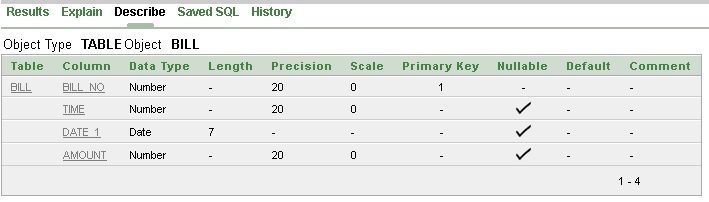
bill\_no number(20) constraint b\_bno\_pk primary key,

time number(20),

date\_1 date,

amount number(20)

)

desc bill  
  
  


create table ac\_id

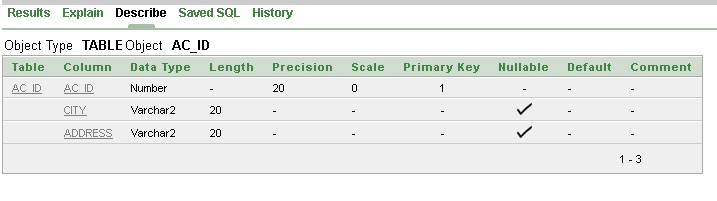
(

ac\_id number(20) constraint ac\_id\_pk primary key,

city varchar2(20),

address varchar2(20)

)

Desc ac\_id  
  


**Data Insertion :**  
  
insert into ww\_id

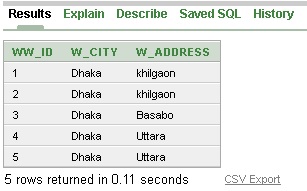
(ww\_id,w\_city,w\_address) values (1,'Dhaka','khilgaon')

(ww\_id,w\_city,w\_address) values (2,'Dhaka','khilgaon')

(ww\_id,w\_city,w\_address) values (3,'Dhaka','Basabo')

(ww\_id,w\_city,w\_address) values (4,'Dhaka','Uttara')

(ww\_id,w\_city,w\_address) values (5,'Dhaka','Uttara')



insert into waiter

(w\_id,w\_name,w\_phone,ww\_id) values (1001,'Fahad',01670000000,1)

(w\_id,w\_name,w\_phone,ww\_id) values (1002,'Farabi',0170000000,2)

(w\_id,w\_name,w\_phone,ww\_id) values (1003,'Fahim',01800000000,3)

(w\_id,w\_name,w\_phone,ww\_id) values (1004,'Sakib',01770000000,4)

(w\_id,w\_name,w\_phone,ww\_id) values (1005,'Abrar',01690000000,5)  
  

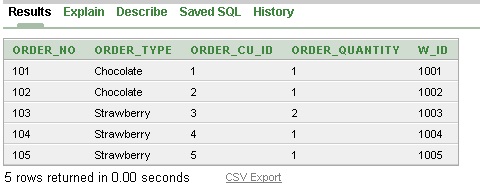

insert into order1

(order\_no,order\_type,order\_cu\_id,order\_quantity,w\_id)values(101,'Chocolate',01,1,1001)

(order\_no,order\_type,order\_cu\_id,order\_quantity,w\_id)values(102,'Chocolate',02,1,1002

(order\_no,order\_type,order\_cu\_id,order\_quantity,w\_id)values(103,'Strawberry',03,2,1003)

(order\_no,order\_type,order\_cu\_id,order\_quantity,w\_id)values(104,'Strawberry',04,1,1004)

(order\_no,order\_type,order\_cu\_id,order\_quantity,w\_id)values(105,'Strawberry',05,1,1005)  
  


insert into food\_item

(f\_no,f\_name,f\_amount,f\_quantity,order\_no)values(3,'Black Forest',50,1,101)

(f\_no,f\_name,f\_amount,f\_quantity,order\_no)values(4,'Chocolate Resbery',70,1,102)

(f\_no,f\_name,f\_amount,f\_quantity,order\_no)values(6,'Biscuit Cake',55,2,103)

(f\_no,f\_name,f\_amount,f\_quantity,order\_no)values(7,'Chocolate Italian',45,1,104)

(f\_no,f\_name,f\_amount,f\_quantity,order\_no)values(8,'Genoise Cake',80,1,105)  
  
  

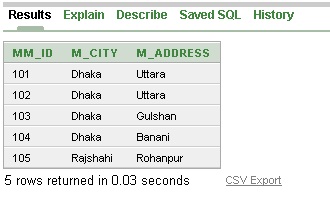

insert into mm\_id

(mm\_id,m\_city,m\_address)values(101,'Dhaka','Uttara')

(mm\_id,m\_city,m\_address)values(102,'Dhaka','Uttara')

(mm\_id,m\_city,m\_address)values(103,'Dhaka','Gulshan')

(mm\_id,m\_city,m\_address)values(104,'Dhaka','Banani')

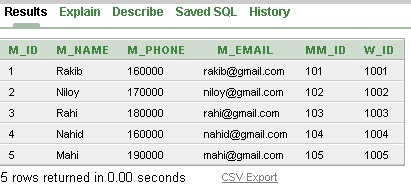
(mm\_id,m\_city,m\_address)values(105,'Rajshahi','Rohanpur')  
  
  
  
  
insert into manager3

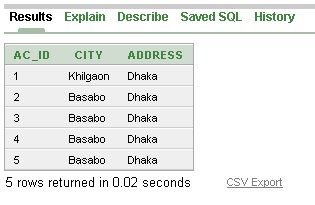
(m\_id,m\_name,m\_phone,m\_email,mm\_id,w\_id)values(01,'Rakib',0160000,'rakib@gmail.com',101,1001)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,w\_id)values(02,'Niloy',0170000,'niloy@gmail.com',102,1002)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,w\_id)values(03,'Rahi',0180000,'rahi@gmail.com',103,1003)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,w\_id)values(04,'Nahid',0160000,'nahid@gmail.com',104,1004)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,w\_id)values(05,'Mahi',0190000,'mahi@gmail.com',105,1005)  
  
  
  
  
  
  
insert into ac\_id

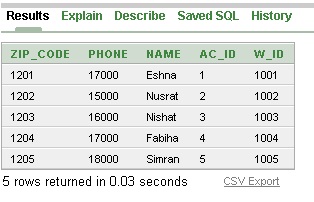
(ac\_id, city, address)values(01,'Khilgaon','Dhaka')  
(ac\_id, city, address)values(02,'Basabo','Dhaka')  
(ac\_id, city, address)values(03,'Basabo','Dhaka')  
(ac\_id, city, address)values(04,'Basabo','Dhaka')  
(ac\_id, city, address)values(05,'Basabo','Dhaka')  
  
  
  
insert into cake\_shop1

(zip\_code,phone,name,ac\_id,w\_id)values(1201,017000,'Eshna',01,1001)

(zip\_code,phone,name,ac\_id,w\_id)values(1202,015000,'Nusrat',02,1002)

(zip\_code,phone,name,ac\_id,w\_id)values(1203,016000,'Nishat',03,1003)

(zip\_code,phone,name,ac\_id,w\_id)values(1204,017000,'Fabiha',04,1004)

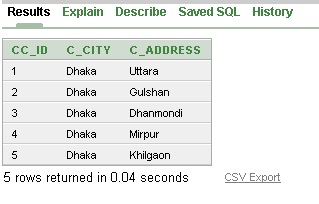
(zip\_code,phone,name,ac\_id,w\_id)values(1205,018000,'Simran',05,1005)  
  
  
  
  
  
  
  
  
insert into cc\_id

(cc\_id,c\_city,c\_address)values(01,'Dhaka','Uttara')

(cc\_id,c\_city,c\_address)values(02,'Dhaka','Gulshan')

(cc\_id,c\_city,c\_address)values(03,'Dhaka','Dhanmondi')

(cc\_id,c\_city,c\_address)values(04,'Dhaka','Mirpur')

(cc\_id,c\_city,c\_address)values(05,'Dhaka','Khilgaon')  
  


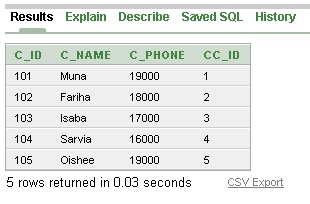
insert into cashier

(c\_id,c\_name,c\_phone,cc\_id)values(101,'Muna',019000,01)

(c\_id,c\_name,c\_phone,cc\_id)values(102,'Fariha',018000,02)

(c\_id,c\_name,c\_phone,cc\_id)values(103,'Isaba',017000,03)

(c\_id,c\_name,c\_phone,cc\_id)values(104,'Sarvia',016000,04)

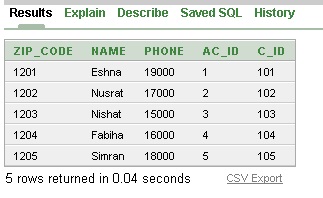
(c\_id,c\_name,c\_phone,cc\_id)values(105,'Oishee',019000,05)  
  
  
  
  
insert into cake\_shop

(zip\_code,name,phone,ac\_id,c\_id)values(1201,'Eshna',019000,01,101)

(zip\_code,name,phone,ac\_id,c\_id)values(1202,'Nusrat',017000,02,102)

(zip\_code,name,phone,ac\_id,c\_id)values(1203,'Nishat',015000,03,103)

(zip\_code,name,phone,ac\_id,c\_id)values(1204,'Fabiha',016000,04,104)

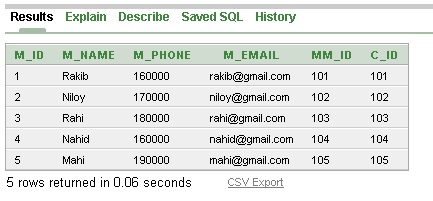
(zip\_code,name,phone,ac\_id,c\_id)values(1205,'Simran',018000,05,105)  
  
  
  
  
insert into manager1

(m\_id,m\_name,m\_phone,m\_email,mm\_id,c\_id)values(01,'Rakib',0160000,'rakib@gmail.com',101,101)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,c\_id)values(02,'Niloy',0170000,'niloy@gmail.com',102,102)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,c\_id)values(03,'Rahi',0180000,'rahi@gmail.com',103,103)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,c\_id)values(04,'Nahid',0160000,'nahid@gmail.com',104,104)

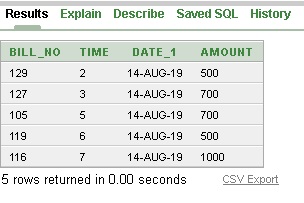
(m\_id,m\_name,m\_phone,m\_email,mm\_id,c\_id)values(05,'Mahi',0190000,'mahi@gmail.com',105,105)  
  
  
  
  
  
insert into bill

(bill\_no,time,date\_1,amount)values(129,2.45,to\_date('14/08/19','DD MM YYYY'),500)

(bill\_no,time,date\_1,amount)values(127,3.28,to\_date('14/08/19','DD MM YYYY'),700)

(bill\_no,time,date\_1,amount)values(105,5.30,to\_date('14/08/19','DD MM YYYY'),700)

(bill\_no,time,date\_1,amount)values(119,6.16,to\_date('14/08/19','DD MM YYYY'),500)

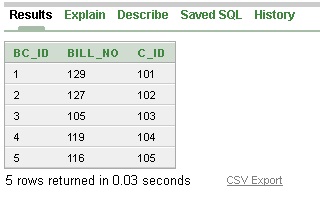
(bill\_no,time,date\_1,amount)values(116,7.30,to\_date('14/08/19','DD MM YYYY'),1000)  
  
  
  
  
insert into bill\_customer

(bc\_id,bill\_no,c\_id)values(01,129,101)

(bc\_id,bill\_no,c\_id)values(02,127,102)

(bc\_id,bill\_no,c\_id)values(03,105,103)

(bc\_id,bill\_no,c\_id)values(04,119,104)

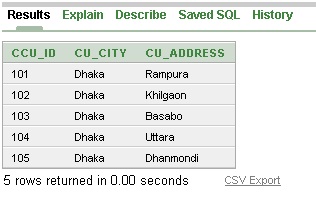
(bc\_id,bill\_no,c\_id)values(05,116,105)  
  
  
  
  
insert into ccu\_id

(ccu\_id,cu\_city,cu\_address)values(101,'Dhaka','Rampura')

(ccu\_id,cu\_city,cu\_address)values(102,'Dhaka','Khilgaon')

(ccu\_id,cu\_city,cu\_address)values(103,'Dhaka','Basabo')

(ccu\_id,cu\_city,cu\_address)values(104,'Dhaka','Uttara')

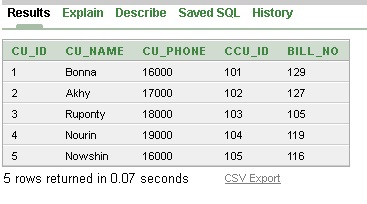
(ccu\_id,cu\_city,cu\_address)values(105,'Dhaka','Dhanmondi')  
  
  
  
insert into customer

(cu\_id,cu\_name,cu\_phone,ccu\_id,bill\_no)values(01,'Bonna',016000,101,129)

(cu\_id,cu\_name,cu\_phone,ccu\_id,bill\_no)values(02,'Akhy',017000,102,127)

(cu\_id,cu\_name,cu\_phone,ccu\_id,bill\_no)values(03,'Ruponty',018000,103,105)

(cu\_id,cu\_name,cu\_phone,ccu\_id,bill\_no)values(04,'Nourin',019000,104,119)

(cu\_id,cu\_name,cu\_phone,ccu\_id,bill\_no)values(05,'Nowshin',016000,105,116)  
  


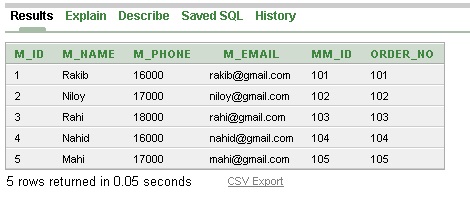
insert into manager2

(m\_id,m\_name,m\_phone,m\_email,mm\_id,order\_no)values(01,'Rakib',016000,'rakib@gmail.com',101,101)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,order\_no)values(02,'Niloy',017000,'niloy@gmail.com',102,102)

(m\_id,m\_name,m\_phone,m\_email,mm\_id,order\_no)values(03,'Rahi',018000,'rahi@gmail.com',103,103)

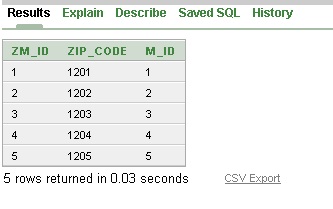
(m\_id,m\_name,m\_phone,m\_email,mm\_id,order\_no)values(04,'Nahid',016000,'nahid@gmail.com',104,104)

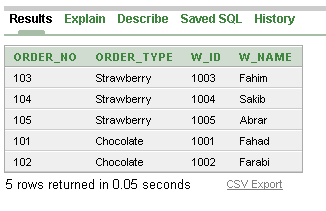
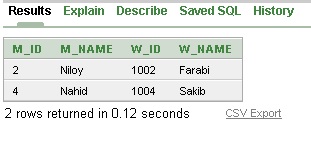
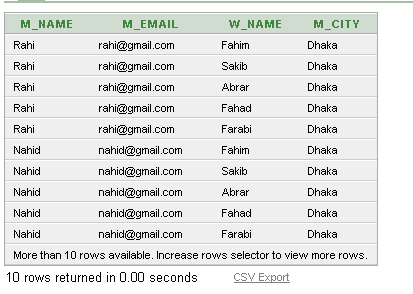
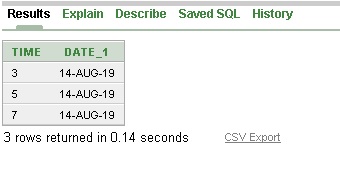
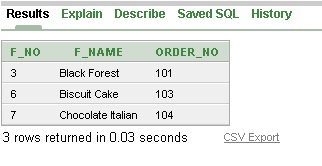
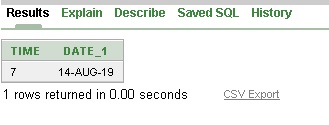
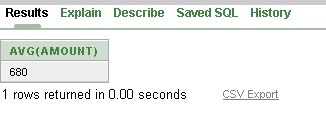
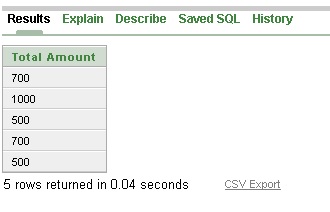
(m\_id,m\_name,m\_phone,m\_email,mm\_id,order\_no)values(05,'Mahi',017000,'mahi@gmail.com',105,105)  
  
  
  
insert into zm\_id

(zm\_id,zip\_code,m\_id)values(01,1201,01)

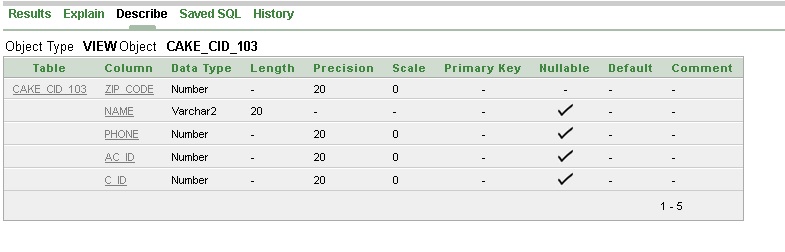
(zm\_id,zip\_code,m\_id)values(02,1202,02)

(zm\_id,zip\_code,m\_id)values(03,1203,03)

(zm\_id,zip\_code,m\_id)values(04,1204,04)  
  
(zm\_id,zip\_code,m\_id)values(05,1205,05)  
  
  
**Query Writing :**

**Joining**1. Write a Query in SQL to Display the order no,ordertypes,waiterno,name from order1  
  
Ans :select o.order\_no,o.order\_type,w.w\_id,w.w\_name from order1 o,waiter w where o.w\_id=w.w\_id  
  
  
  
2. Write a Query in SQL to Display manager no, manager name for all manager, waiter no, waiter name for all manager for waiters 1002 to 1009  
  
Ans: select m.m\_id,m.m\_name,w.w\_id,w.w\_name from manager3 m ,waiter w where m.w\_id=w.w\_id and w.w\_id in (1002,1004)  
  
  
  
  
  
  
  
  
  
3.Write a Query SQL to Display those manager who contain a letter ‘h’ to the managers name and also display their email,waitername,manager city  
  
Ans: select m.m\_name,m.m\_email,w.w\_name,mm.m\_city from manager2 m,waiterw,mm\_id mm where m.mm\_id=mm.mm\_id and m.m\_name like '%h%'  
  
  
  
**Sub Query :**1. Display the time,date for all bill where amount is more than the bill no 119 (bill table)  
  
Ans : select time ,date\_1 from bill where amount>(select amount from bill where bill\_no=119)  
  
  
  
  
  
  
  
  
  
  
  
2. Display food item no,name,order no for all foods where item amount is less than the average amount(food-item table)  
  
Ans: select f\_no,f\_name,order\_no from food\_item where f\_amount<(select avg(f\_amount) from food\_item)  
  
  
  
3. Display time,date for all bill where amount is more than the maximum amount in bill no 105(bill table)   
  
Ans : select time,date\_1 from bill where amount>(select max(amount) from bill where bill\_no=105)  
  
  
  
**Group Func** :   
  
1. Display average amount of bill by their date ?  
  
ans : select avg(amount) from bill group by date\_1  
  
  
  
  
  
  
  
  
2. Display sum of amount of all bill no and name the column as total amount ?  
  
ans. select sum(amount) as "Total Amount" from bill group by bill\_no  
  
  
  
 **View** :   
  
create a view cakeshop ,that contains details of cake\_shop in cashier 103  
  
ans : create view cake\_cid\_103

as select zip\_code,name,phone,ac\_id,c\_id from cake\_shop where c\_id=103

describe cake\_cid\_103  
  
  
  
  
  
  
  
  
**Conclusion :** After the efforts by all our group members we created out database managment project “Cake shop management system” Initially face some problems but then gradually we worked on it and was able to overcome that .Now, hopefully we will be able to create database system for different projects