Introduction to Database

Project Topic : KFC Management System.

Section : J

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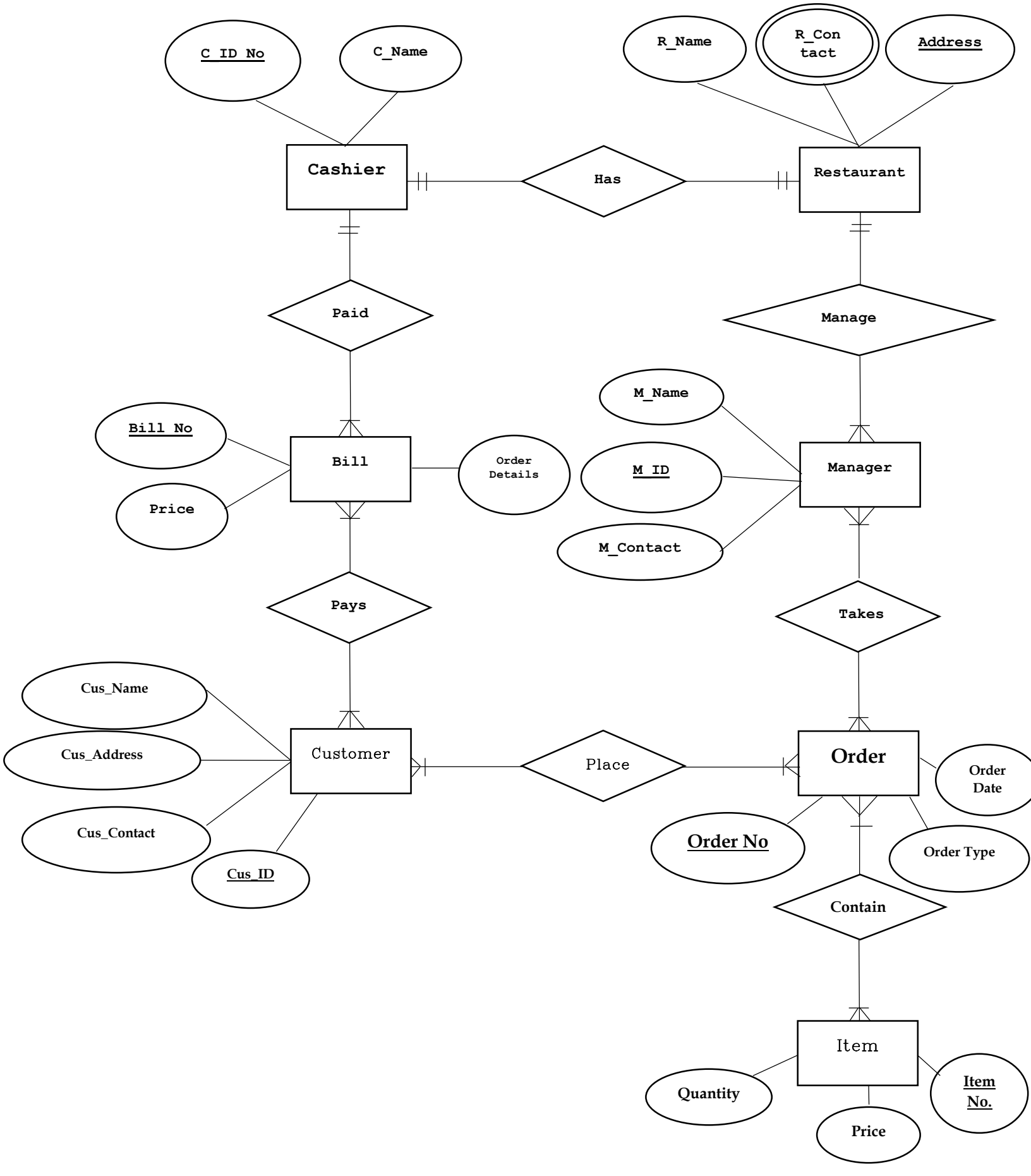
Introduction:

KFC (Kentucky Fried Chicken) is one of the leading fast food concepts of today. Starting the United States in the 1930s, it has grown to become a true multi-domestic company. KFC has focused on foreign markets since the 1960s and has initiated a new challenge today in conquering Asia. KFC, known as Kentucky Fried Chicken, is a chain of fast food restaurants based in Louisville, Kentucky. In the midst of the depression, Harland Sanders who was born just outside Henry vile, opens his first restaurants in the small front room of a gas station in Corbin, Kentucky. The target customer of KFC [Upper, Middle and above] are healthy conscious and hence to cater to their interest Kentucky fried Chicken changed its name to KFC.

Case Study:

KFC (Kentucky Fried Chicken) is one of the most popular and widely spread fast-food restaurants in our country. In the KFC management system the cashier's id, name will be stored in the database. The restaurant has a cashier to manage the system of KFC. There is a lot of branches of KFC restaurants. So, in the restaurant where the restaurant's name, multiple contact number, the address will be stored in the database. The restaurant is managed by a number of manager. The information of the manager (Name, ID number, Contact number) will be recorded in the database. The manager takes orders. The information about the order (Order number, Order Date, Order Type) will be stored. The information of the item (Quantity, Item Number, Price, and Description) will be stored in the database. The order contains the item. The order places the customer and the information of the customer are (Name, address, contact number, id). The customer pays the bill. Here the information about the bill (Bill number, price, and other details) will be recorded. The bill paid to the cashier. All the above information will be stored in the database. Now drawing an ER Diagram according to the mentioned scenario.

ER Diagram:


C_ID_No
C_Name
R_Name
R_Contact
Address
Cashier
Has
Restaurant
Paid
Manage
M_Name
Bill_No
Bill
Order Details
M_ID
Manager
Price
M_Contact
Pays
Takes
Cus_Name
Cus_Address
Customer
Place
Order
Order Date
Order No
Order Type
Cus_Contact
Cus_ID
Contain
Item
Quantity
Item No.
Price

Has (C_ID No , C_Name , R_Contact, Address, R_Name)

1NF : Contact multivalued attribute

2NF :

C_ID No , C_Name

Address, R_Contact, R_Name , C_ID No

3NF :

C_ID No , C_Name

Address, R_Contact, R_Name , C_ID No

No transitive dependency

Table :

C_ID No , C_Name

Address, R_Contact, R_Name , C_ID No

Paid (Bill_No , Price , Order_Details , C_ID No, C_Name)

1NF: No multivalued attribute

2NF:

Bill_No , Price , Order_Details, C_ID No

C_ID No, C_Name

3NF:

Bill_No , Price , Order_Details, C_ID No

C_ID No, C_Name

No transitive dependency

Table :

Bill_No , Price , Order_Details, C_ID No

C_ID No, C_Name

Pays (Bill_No , Price , Order_Details , Cus_Name, Cus_Address , Cus_Contact , Cus_ID)

1NF : No multivalued attribute

2NF :

Bill_No , Price , Order_Details

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

BCus_ID , Bill_No , Cus_ID

3NF :

Bill_No , Price , Order_Details

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

BCus_ID , Bill_No , Cus_ID

No transitive dependency

Table :

Bill_No , Price , Order_Details

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

BCus_ID , Bill_No , Cus_ID

Place (Cus_ID , Cus_Name, Cus_Address , Cus_Contact , Order_No , Order_Date ,Order_Type)

1NF : No multivalued attribute

2NF :

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

Order No , Order_Date ,Order_Type

COr_No , Cus_ID , Order No

3NF :

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

Order No , Order_Date ,Order_Type

COr_No, Cus_ID , Order No

No transitive dependency

Table :

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

Order No , Order_Date ,Order_Type

COr_No , Cus_ID , Order No

Contain (Order No , Order_Date ,Order_Type , Item No , Quantity , Price , Description)

1NF : No Multivalued Attribute

2NF :

Order No , Order_Date ,Order_Type

Item No , Quantity , Price

IT No , Order_No , Item_No

3NF :

Order No , Order_Date ,Order_Type

Item No , Quantity , Price

IT No , Order_No , Item_No

No transitive dependency

Table :

Order No , Order_Date ,Order_Type

Item No , Quantity , Price

IT No , Order_No , Item_No

Takes (Order_No , Order_Date ,Order_Type, M_ID , M_Name, M_Contact)

1NF : No multivalued attribute

2NF :

M_ID , M_Name, M_Contact

Order_No , Order_Date ,Order_Type

OM _No , M_ID , Order_No

3NF :

M_ID , M_Name, M_Contact

Order_No , Order_Date ,Order_Type

OM _No , M_ID , Order_No

No transitive dependency

Table :

M_ID , M_Name, M_Contact

Order_No , Order_Date ,Order_Type

OM _No , M_ID , Order_No

Manager (M_ID , M_Name, M_Contact , Address , R_Contact, R_Name)

1NF : R_Contact multivalued attribute

2NF :

M_ID , M_Name, M_Contact

Address , R_Contact, R_Name

MA _No , M_ID , Address

3NF :

M_ID , M_Name, M_Contact

Address , R_Contact, R_Name

MA _No , M_ID , Address

No transitive dependency

Table :

M_ID , M_Name, M_Contact

Address , R_Contact, R_Name

MA _No , M_ID , Address

Total table :

C_ID No , C_Name

Address, R_Contact, R_Name , C_ID No

Bill_No , Price , Order_Details, C_ID No

~~C_ID No, C_Name~~

~~Bill_No , Price , Order_Details~~

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

BCus_ID , Bill_No , Cus_ID

~~Cus_ID , Cus_Name, Cus_Address , Cus_Contact~~

Order No , Order_Date ,Order_Type

COr_No , Cus_ID , Order No

~~Order No , Order_Date ,Order_Type~~

Item No , Quantity , Price

IT No , Order_No , Item_No

M_ID , M_Name, M_Contact

~~Order_No , Order_Date ,Order_Type~~

OM _No , M_ID , Order_No

~~M_ID , M_Name, M_Contact~~

~~Address , R_Contact, R_Name~~

MA _No , M_ID , Address

Final table :

C_ID No , C_Name

Address, R_Contact, R_Name , C_ID No

Bill_No , Price , Order_Details, C_ID No

Cus_ID , Cus_Name, Cus_Address , Cus_Contact

BCus_ID , Bill_No , Cus_ID

Order No , Order_Date ,Order_Type

COr_No , Cus_ID , Order No

Item No , Quantity , Price

IT No , Order_No , Item_No

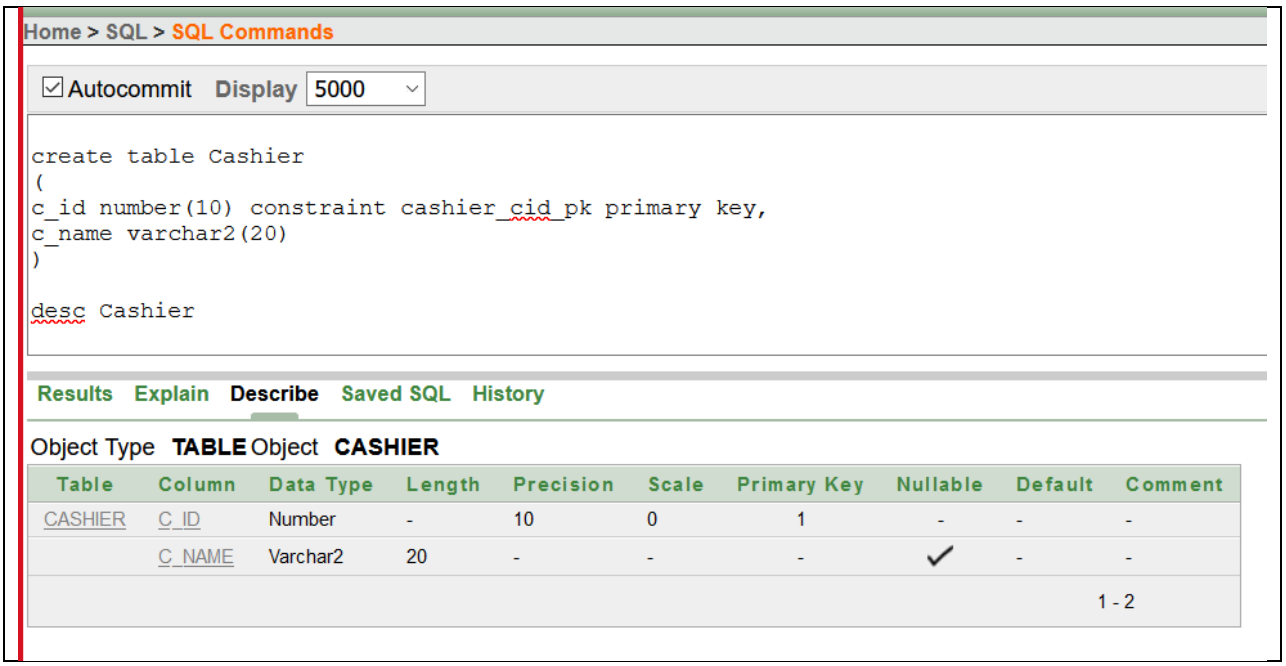
M_ID , M_Name, M_Contact

OM _No , M_ID , Order_No

MA _No , M_ID , Address

Table Creation

Cashier



Restaurant

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table Restaurant
(
r_name varchar2(30),
r_contact number(20),
address varchar2(30) constraint Restaurant_address_pk primary key,
c_id number(10) constraint Restaurent_cid_fk references  Cashier(c_id)
)

desc Restaurant
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **RESTAURANT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RESTAURANT	R_NAME	Varchar2	30	-	-	-	✓	-	-
	R_CONTACT	Number	-	20	0	-	✓	-	-
	ADDRESS	Varchar2	30	-	-	1	-	-	-
	C_ID	Number	-	10	0	-	✓	-	-

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Bill

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table bill (
bill_no number(20) constraint bill_billno_pk primary key,
price number(10,2),
order_details varchar2(20),
c_id number(10) constraint bill_cid_fk references  Cashier(c_id)
)

desc bill
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **BILL**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BILL	BILL_NO	Number	-	20	0	1	-	-	-
	PRICE	Number	-	10	2	-	✓	-	-
	ORDER_DETAILS	Varchar2	20	-	-	-	✓	-	-
	C_ID	Number	-	10	0	-	✓	-	-

1 - 4

Manager

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table manager (
m_name varchar2(20),
m_id number(10) constraint manager_mid_pk primary key,
m_contact number(20)
)

desc manager
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **MANAGER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANAGER	M_NAME	Varchar2	20	-	-	-	✓	-	-
	M_ID	Number	-	10	0	1	-	-	-
	M_CONTACT	Number	-	20	0	-	✓	-	-

1 - 3

Customer

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table customer (
cus_name varchar2(20),
cus_address varchar2(20),
cus_contact number(20),
cus_id number(10) constraint customer_cusid_pk primary key
)

desc customer
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **CUSTOMER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	CUS_NAME	Varchar2	20	-	-	-	✓	-	-
	CUS_ADDRESS	Varchar2	20	-	-	-	✓	-	-
	CUS_CONTACT	Number	-	20	0	-	✓	-	-
	CUS_ID	Number	-	10	0	1	-	-	-

1 - 4

Orders

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table orders(
order_no number(5) constraint orders_orderno_pk primary key,
order_date date,
order_type varchar2(20)
)

desc orders
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **ORDERS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDERS	ORDER_NO	Number	-	5	0	1	-	-	-
	ORDER_DATE	Date	7	-	-	-	✓	-	-
	ORDER_TYPE	Varchar2	20	-	-	-	✓	-	-

1 - 3

Item

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table item (
quantity number(10),
item_no number(5) constraint item_itemno_pk primary key,
price number(10,2)
)

desc item
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **ITEM**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ITEM	QUANTITY	Number	-	10	0	-	✓	-	-
	ITEM_NO	Number	-	5	0	1	-	-	-
	PRICE	Number	-	10	2	-	✓	-	-

1 - 3

Bill info

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table bill_info (
BCus_id number(5) constraint billinfo_bcusid_pk primary key,
bill_no number(10)constraint billinfo_billno_fk references  bill(bill_no),
cus_id number(10) constraint billinfo_cusid_fk references  Customer(cus_id)
)

desc bill_info
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **BILL_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BILL_INFO	BCUS_ID	Number	-	5	0	1	-	-	-
	BILL_NO	Number	-	10	0	-	✓	-	-
	CUS_ID	Number	-	10	0	-	✓	-	-

1 - 3

Customer_order_info

Home > SQL > SQL Commands

Autocommit Display 1000

```
create table Customer_Order_info  (
Cor_no number(10) constraint CustomerOrderinfo_corno_pk primary key,
order_no number(5) constraint CustomerOrderinfo_orderno_fk references  orders(order_no),
cus_id number(10) constraint CustomerOrderinfo_cusid_fk references  Customer(cus_id)
)

desc customer_order_info
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **CUSTOMER_ORDER_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER_ORDER_INFO	COR_NO	Number	-	10	0	1	-	-	-
	ORDER_NO	Number	-	5	0	-	✓	-	-
	CUS_ID	Number	-	10	0	-	✓	-	-

1 - 3

Item_order_info

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table item_order_info (
it_no number(5) constraint itemorderinfo_itno_pk primary key,
order_no number(5) constraint itemorderinfo_orderno_fk references orders(order_no),
item_no number(5) constraint itemorderinfo_itemno_fk references Item(item_no)
)

desc item_order_info
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **ITEM_ORDER_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ITEM_ORDER_INFO	IT_NO	Number	-	5	0	1	-	-	-
	ORDER_NO	Number	-	5	0	-	✓	-	-
	ITEM_NO	Number	-	5	0	-	✓	-	-

1 - 3

Order_manager

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table order_manager (
om_no number(5) constraint ordermanager_omno_pk primary key,
order_no number(5) constraint ordermanager_orderno_fk references orders(order_no),
m_id number(10) constraint ordermanager_mid_fk references manager(m_id)
)

desc order_manager
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **ORDER_MANAGER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDER_MANAGER	OM_NO	Number	-	5	0	1	-	-	-
	ORDER_NO	Number	-	5	0	-	✓	-	-
	M_ID	Number	-	10	0	-	✓	-	-

1 - 3

Manager_in_Restaurant

Home > SQL > SQL Commands

Autocommit Display 5000

```
create table manager_in_restaurant (
ma_no number(5) constraint managerinrestaurant_mano_pk primary key,
m_id number(10) constraint managerinrestaurant_mid_fk references manager(m_id),
address varchar2(30) constraint managerinrestaurant_address_fk references Restaurant(address)
)
desc manager_in_restaurant
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **MANAGER_IN_RESTAURANT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANAGER_IN_RESTAURANT	MA_NO	Number	-	5	0	1	-	-	-
	M_ID	Number	-	10	0	-	✓	-	-
	ADDRESS	Varchar2	30	-	-	-	✓	-	-

1 - 3

Data Insertion

Cashier

Home > SQL > SQL Commands

Autocommit Display 5000

```
insert into cashier (c_id,c_name) values (101,'Abrar')
insert into cashier (c_id,c_name) values (102,'Mahisha')
insert into cashier (c_id,c_name) values (103,'Sudipta')
insert into cashier (c_id,c_name) values (104,'Himi')
insert into cashier (c_id,c_name) values (105,'Rubaiba')

select * from cashier
```

Results Explain Describe Saved SQL History

C_ID	C_NAME
103	Sudipta
104	Himi
105	Rubaiba
101	Abrar
102	Mahisha

5 rows returned in 0.00 seconds CSV Export

Restaurant

Home > SQL > SQL Commands

Autocommit Display 5000

```
insert into restaurant (r_name,r_contact,address,c_id) values('KFC Bashundhora',08812312,'Panthapath',101)
insert into restaurant (r_name,r_contact,address,c_id) values('KFC Dhanmondi',08812312,'Dhanmondi Jigatola',102)
insert into restaurant (r_name,r_contact,address,c_id) values('KFC Jamuna',08812356,'Bashundhora A/B',103)
insert into restaurant (r_name,r_contact,address,c_id) values('KFC Banani',08812353,'Banani HB Road',104)
insert into restaurant (r_name,r_contact,address,c_id) values('KFC Uttara',08812312,'Uttara C Sector',105)

select * from restaurant
```

Results Explain Describe Saved SQL History

R_NAME	R_CONTACT	ADDRESS	C_ID
KFC Jamuna	8812356	Bashundhora A/B	103
KFC Bashundhora	8812312	Panthapath	101
KFC Dhanmondi	8812312	Dhanmondi Jigatola	102
KFC Banani	8812353	Banani HB Road	104
KFC Uttara	8812312	Uttara C Sector	105

5 rows returned in 0.00 seconds CSV Export

Bill

Home > SQL > SQL Commands

Autocommit Display 5000

```
insert into bill (bill_no,price,order_details,c_id) values (1,240.25,'Parcel',101)
insert into bill (bill_no,price,order_details,c_id) values (2,370.40,'Table B',102)
insert into bill (bill_no,price,order_details,c_id) values (3,1020.00,'Parcel',103)
insert into bill (bill_no,price,order_details,c_id) values (4,1300.22,'Table K',104)
insert into bill (bill_no,price,order_details,c_id) values (5,560.00,'Parcel',105)
insert into bill (bill_no,price,order_details,c_id) values (6,890.50,'Table FF',103)
insert into bill (bill_no,price,order_details,c_id) values (7,500.00,'Parcel',101)

select * from bill
```

Results Explain Describe Saved SQL History

BILL_NO	PRICE	ORDER_DETAILS	C_ID
1	240.25	Parcel	101
2	370.4	Table B	102
3	1020	Parcel	103
4	1300.22	Table K	104
5	560	Parcel	105
6	890.5	Table FF	103
7	500	Parcel	101

7 rows returned in 0.01 seconds CSV Export

Manager

Home > SQL > SQL Commands

Autocommit Display 5000

```
insert into manager (m_id,m_name,m_contact) values (201,'Mishel',00801322131)
insert into manager (m_id,m_name,m_contact) values (202,'Richard',00801322231)
insert into manager (m_id,m_name,m_contact) values (203,'Manuel',00801322311)
insert into manager (m_id,m_name,m_contact) values (204,'Fransis',0080145131)
insert into manager (m_id,m_name,m_contact) values (205,'Maldini',00801322131)

select * from manager
```

Results Explain Describe Saved SQL History

M_NAME	M_ID	M_CONTACT
Mishel	201	801322131
Richard	202	801322231
Manuel	203	801322311
Fransis	204	80145131
Maldini	205	801322131

5 rows returned in 0.00 seconds CSV Export

Customer

Home > SQL > SQL Commands

Autocommit Display 5000

```
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Nazmul Hossain','Rampura', 0081734123123 , 801 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Nadia Anam','Middle Badda', 008123123123 , 802 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Shibaji Mridha','Gulshan', 008123233123 , 803 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Zahin Sayed','Banani', 008122323123 , 804 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Bithi Paul','Mohakhali', 008123533123 , 805 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Nazia Alfaz','Chairmen Bari', 00812313123 , 806 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Nazmus Shakib','Khilkhet', 008123176123 , 807 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Majidul Haque','Uttara', 008123123123 , 808 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Ismail Hossain','Nodda', 008123533123 , 809 )
insert into customer (cus_name,cus_address,cus_contact,cus_id) values ('Sakir Hossain','Notunbazar', 008175123123 , 810 )

select * from customer
```

Results Explain Describe Saved SQL History

CUS_NAME	CUS_ADDRESS	CUS_CONTACT	CUS_ID
Shibaji Mridha	Gulshan	8123233123	803
Zahin Sayed	Banani	8122323123	804
Bithi Paul	Mohakhali	8123533123	805
Nazia Alfaz	Chairmen Bari	812313123	806
Nazmus Shakib	Khilkhet	8123176123	807
Majidul Haque	Uttara	8123123123	808
Ismail Hossain	Nodda	8123533123	809
Sakir Hossain	Notunbazar	8175123123	810
Nazmul Hossain	Rampura	81734123123	801
Nadia Anam	Middle Badda	8123123123	802

10 rows returned in 0.00 seconds CSV Export

Orders

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into orders (order_no,order_type,order_date) values (1,'Counter','1 March, 2020')
insert into orders (order_no,order_type,order_date) values (2,'Counter','2 March, 2020')
insert into orders (order_no,order_type,order_date) values (3,'Web Order','6 March, 2020')
insert into orders (order_no,order_type,order_date) values (4,'Dine In','14 March, 2020')
insert into orders (order_no,order_type,order_date) values (5,'Counter','15 March, 2020')
insert into orders (order_no,order_type,order_date) values (6,'Dine In','117 March, 2020')
insert into orders (order_no,order_type,order_date) values (7,'Counter','18 March, 2020')
insert into orders (order_no,order_type,order_date) values (8,'Web Order','3 April, 2020')
insert into orders (order_no,order_type,order_date) values (9,'Dine In','6 April, 2020')

select * from orders
```

Results Explain Describe Saved SQL History

ORDER_NO	ORDER_DATE	ORDER_TYPE
2	02-MAR-20	Counter
1	01-MAR-20	Counter
3	06-MAR-20	Web Order
4	14-MAR-20	Dine In
5	15-MAR-20	Counter
7	18-MAR-20	Counter
8	03-APR-20	Web Order
9	06-APR-20	Dine In

8 rows returned in 0.00 seconds CSV Export

Item

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into item (item_no, quantity,price) values(1, 3, 230.00)
insert into item (item_no, quantity,price) values(2, 2, 500.00)
insert into item (item_no, quantity,price) values(3, 3, 190.00)
insert into item (item_no, quantity,price) values(4, 4, 280.00)
insert into item (item_no, quantity,price) values(5, 5, 150.00)
insert into item (item_no, quantity,price) values(6, 1, 800.00)
insert into item (item_no, quantity,price) values(7, 2, 620.00)
insert into item (item_no, quantity,price) values(8, 4, 130.00)
insert into item (item_no, quantity,price) values(9, 2, 450.00)
insert into item (item_no, quantity,price) values(10,1, 550.00)

select * from item
```

Results Explain Describe Saved SQL History

QUANTITY	ITEM_NO	PRICE
3	1	230
2	2	500
3	3	190
4	4	280
5	5	150
1	6	800
2	7	620
4	8	130
2	9	450
1	10	550

10 rows returned in 0.00 seconds CSV Export

Bill_info

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into bill_info (bcus_id, bill_no, cus_id) values (1001,2, 807)
insert into bill_info (bcus_id, bill_no, cus_id) values (1002,4, 806)
insert into bill_info (bcus_id, bill_no, cus_id) values (1003,7, 802)
insert into bill_info (bcus_id, bill_no, cus_id) values (1004,3, 801)
insert into bill_info (bcus_id, bill_no, cus_id) values (1005,1, 804)
insert into bill_info (bcus_id, bill_no, cus_id) values (1006,5, 803)
insert into bill_info (bcus_id, bill_no, cus_id) values (1007,6, 805)

select * from bill_info
```

Results Explain Describe Saved SQL History

BCUS_ID	BILL_NO	CUS_ID
1003	7	802
1004	3	801
1005	1	804
1006	5	803
1007	6	805
1001	2	807
1002	4	806

7 rows returned in 0.00 seconds CSV Export

Customer_order_info

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into customer_order_info(Cor_no, order_no, cus_id) values (1101,4,806)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1102,1,803)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1103,5,808)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1104,2,801)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1105,3,804)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1106,7,805)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1107,9,802)
insert into customer_order_info(Cor_no, order_no, cus_id) values (1108,8,809)

select * from customer_order_info
```

Results Explain Describe Saved SQL History

COR_NO	ORDER_NO	CUS_ID
1103	5	808
1104	2	801
1105	3	804
1106	7	805
1107	9	802
1108	8	809
1101	4	806
1102	1	803

8 rows returned in 1.63 seconds CSV Export

Item_order_info

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into item_order_info (it_no, order_no, item_no) values (1,2,8)
insert into item_order_info (it_no, order_no, item_no) values (2,3,2)
insert into item_order_info (it_no, order_no, item_no) values (3,5,5)
insert into item_order_info (it_no, order_no, item_no) values (4,8,1)
insert into item_order_info (it_no, order_no, item_no) values (5,7,3)
insert into item_order_info (it_no, order_no, item_no) values (6,1,6)
insert into item_order_info (it_no, order_no, item_no) values (7,9,4)
insert into item_order_info (it_no, order_no, item_no) values (8,8,7)

select * from item_order_info
```

Results Explain Describe Saved SQL History

IT_NO	ORDER_NO	ITEM_NO
1	2	8
2	3	2
3	5	5
4	8	1
5	7	3
6	1	6
7	9	4
8	8	7

8 rows returned in 1.64 seconds CSV Export

Order_manager

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into order_manager(om_no, order_no, m_id) values(1201,3,205)
insert into order_manager(om_no, order_no, m_id) values(1202,1,202)
insert into order_manager(om_no, order_no, m_id) values(1203,4,204)
insert into order_manager(om_no, order_no, m_id) values(1204,5,203)
insert into order_manager(om_no, order_no, m_id) values(1205,2,201)

select * from order_manager
```

Results Explain Describe Saved SQL History

OM_NO	ORDER_NO	M_ID
1201	3	205
1202	1	202
1203	4	204
1204	5	203
1205	2	201

5 rows returned in 0.00 seconds CSV Export

Manager_in_restaurant

Home > SQL > SQL Commands

Autocommit Display 1000

```
insert into manager_in_restaurant (ma_no,m_id,address) values (4001, 203, 'Dhanmondi Jigatola')
insert into manager_in_restaurant (ma_no,m_id,address) values (4002, 205, 'Banani HB Road')
insert into manager_in_restaurant (ma_no,m_id,address) values (4003, 202, 'Uttara C Sector')
insert into manager_in_restaurant (ma_no,m_id,address) values (4004, 204, 'Bashundhora A/B')
insert into manager_in_restaurant (ma_no,m_id,address) values (4005, 201, 'Panthapath')

select * from manager_in_restaurant
```

Results Explain Describe Saved SQL History

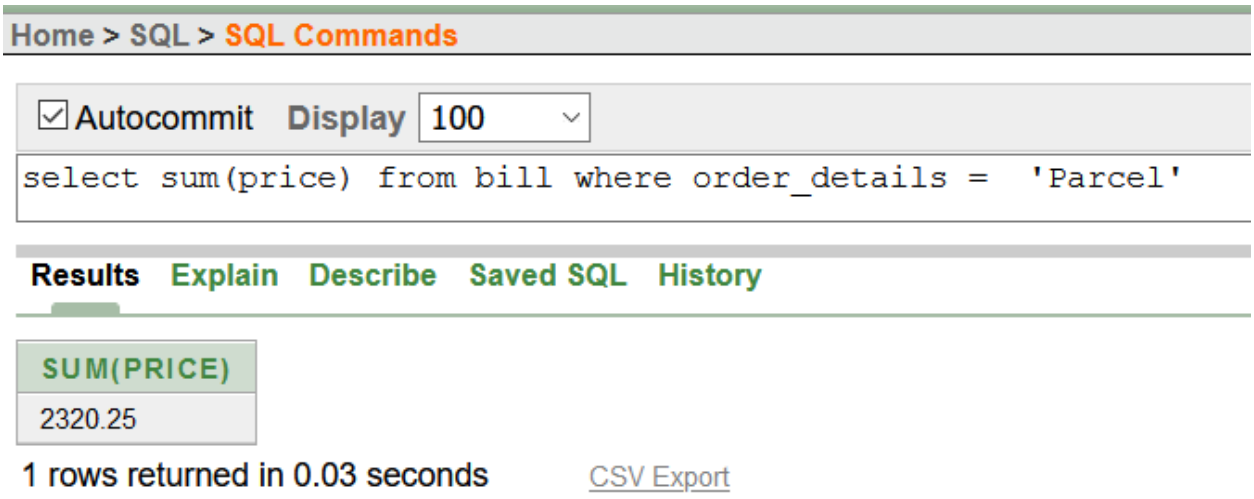
MA_NO	M_ID	ADDRESS
4001	203	Dhanmondi Jigatola
4002	205	Banani HB Road
4003	202	Uttara C Sector
4004	204	Bashundhora A/B
4005	201	Panthapath

5 rows returned in 0.00 seconds CSV Export

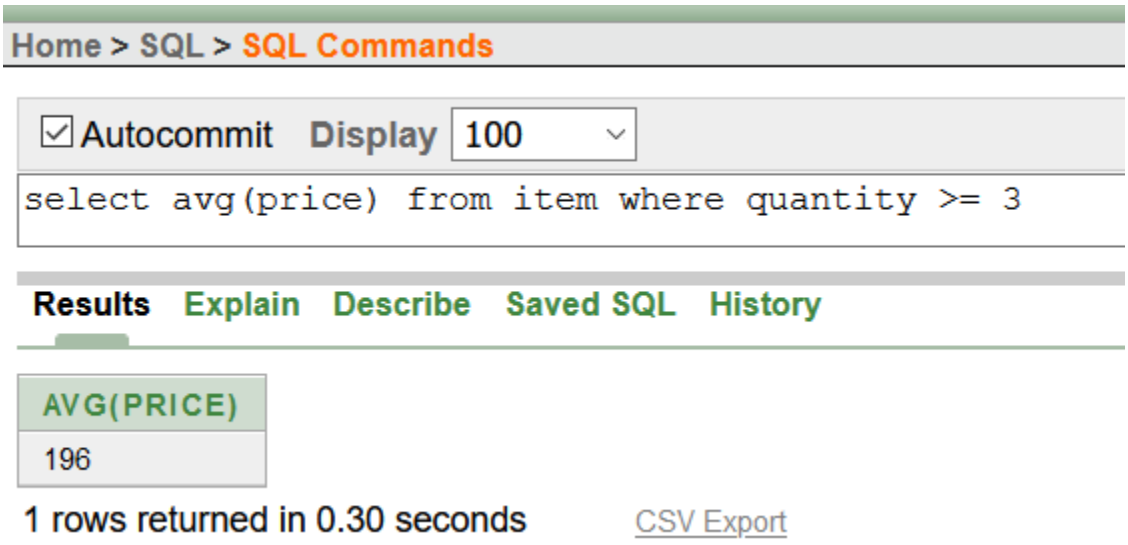
Query

Group Function

- Write a query and display the sum of the price of food which ordered for parcel.

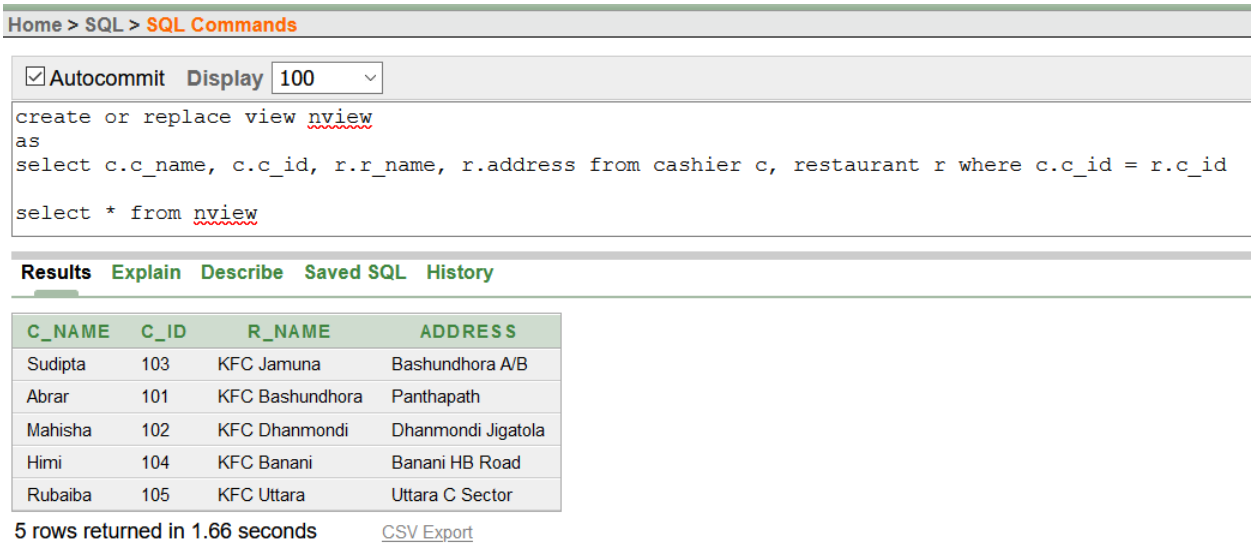


- Write a query and display the average price of the item where quantity is equal or more than three.



View

- Create a view and display that contains customer name, customer id, restaurant name and restaurant address.



Home > SQL > SQL Commands

Autocommit Display 100

```
create or replace view nview
as
select c.c_name, c.c_id, r.r_name, r.address from cashier c, restaurant r where c.c_id = r.c_id

select * from nview
```

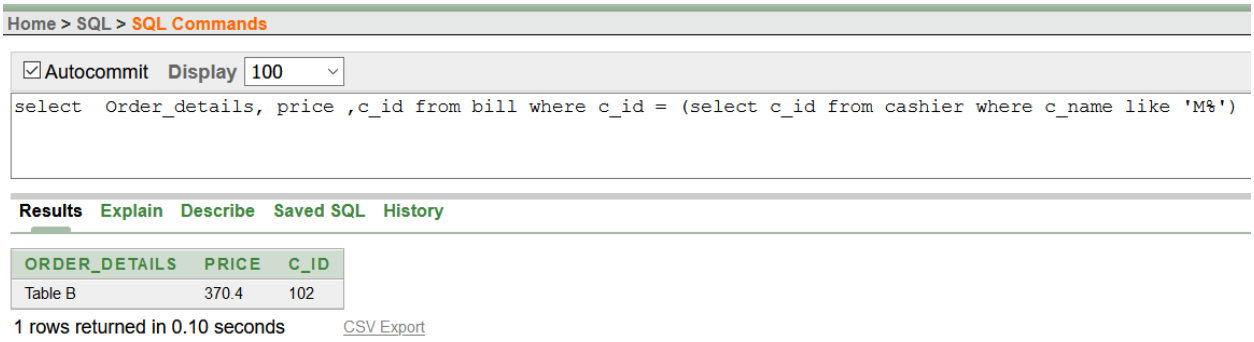
Results Explain Describe Saved SQL History

C_NAME	C_ID	R_NAME	ADDRESS
Sudipta	103	KFC Jamuna	Bashundhora A/B
Abrar	101	KFC Bashundhora	Panthapath
Mahisha	102	KFC Dhanmondi	Dhanmondi Jigatola
Himi	104	KFC Banani	Banani HB Road
Rubaiba	105	KFC Uttara	Uttara C Sector

5 rows returned in 1.66 seconds CSV Export

Subquery

- Write a query and display Order details, price and customer id whose name start with 'M'.



Home > SQL > SQL Commands

Autocommit Display 100

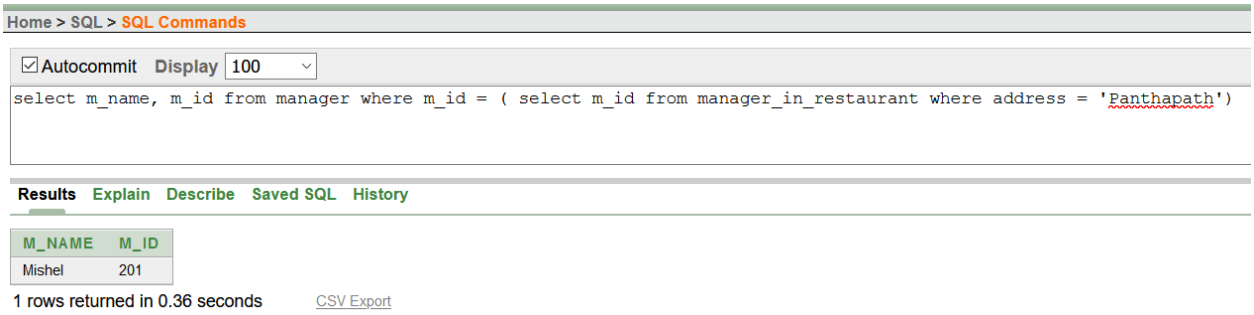
```
select  Order_details, price ,c_id from bill where c_id = (select c_id from cashier where c_name like 'M%')
```

Results Explain Describe Saved SQL History

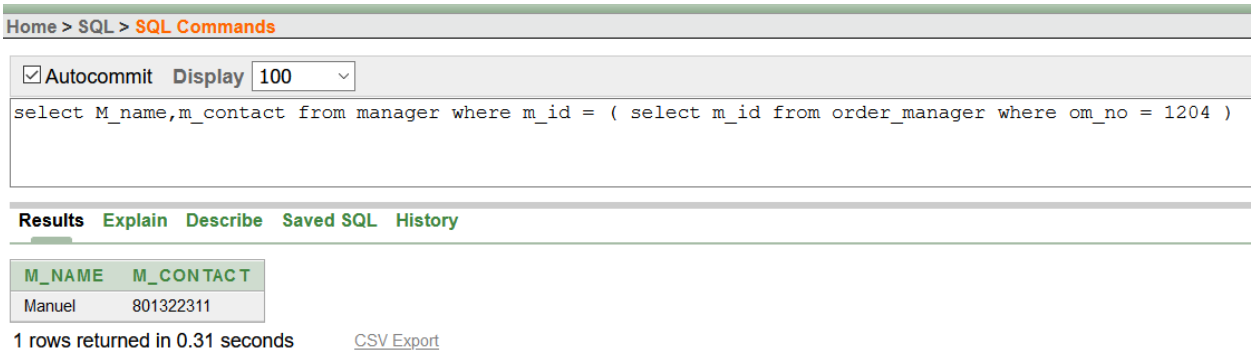
ORDER_DETAILS	PRICE	C_ID
Table B	370.4	102

1 rows returned in 0.10 seconds CSV Export

- Write a query and display manager name, manager id who works in Panthapath branch.

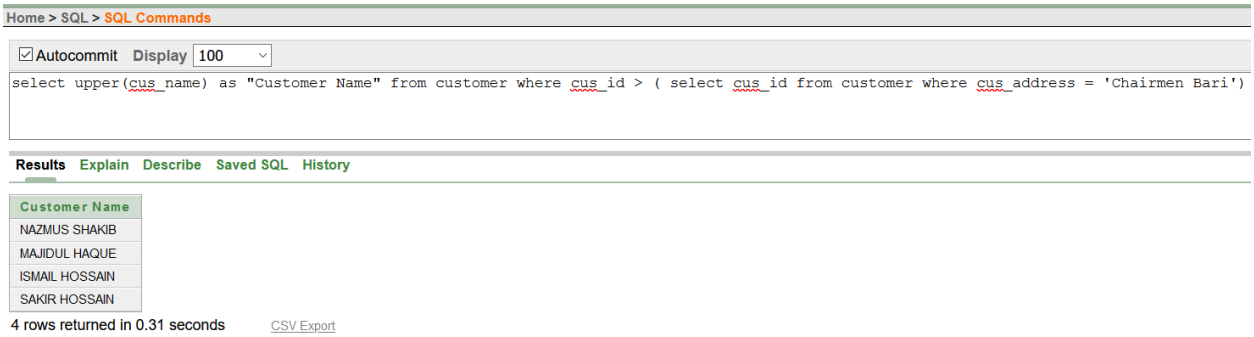


- Write a query and display manager name, manager contact whose om_no 1204.



Single row function

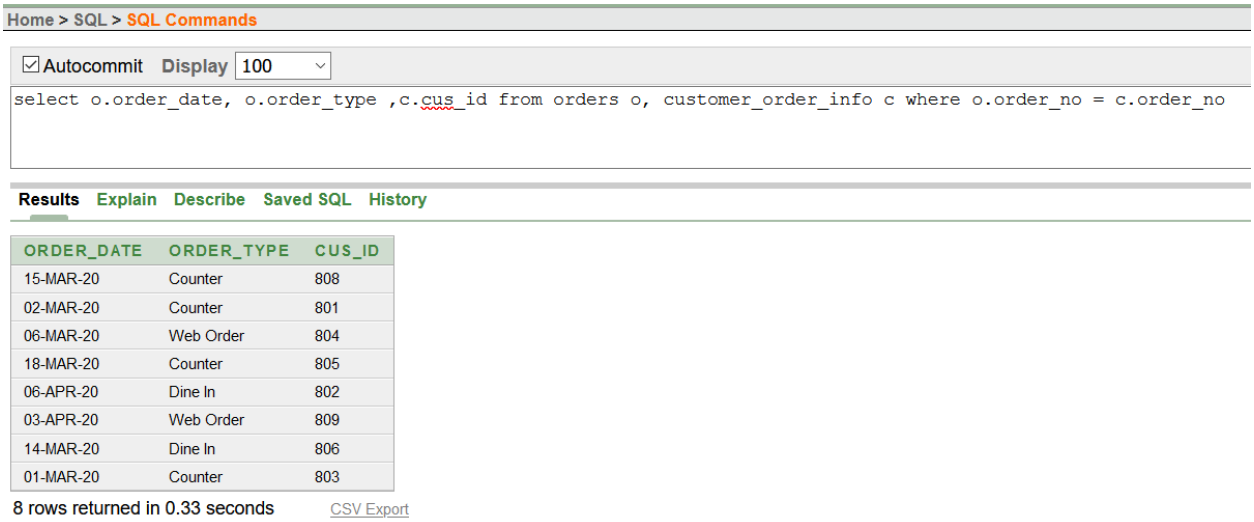
- Write a query and display all the customer name in upper case whose customer id is greater than the customer name of the 'Chairman Bari' Branch.



Joining

Equijoin

- Write a query and display order date, order type and customer id.



➢ Outer Join

- Write a query and display all the customer name, customer address, customer contact and bill no.

Home > SQL > SQL Commands

Autocommit Display 100

```
select c.cus_name,c.cus_address, c.cus_contact, b.bill_no from customer c, bill_info b where c.cus_id = b.cus_id(+)
```

Results Explain Describe Saved SQL History

CUS_NAME	CUS_ADDRESS	CUS_CONTACT	BILL_NO
Nazmul Hossain	Rampura	81734123123	3
Nadia Anam	Middle Badda	8123123123	7
Shibaji Mridha	Gulshan	8123233123	5
Zahin Sayed	Banani	8122323123	1
Bithi Paul	Mohakhali	8123533123	6
Nazia Alfaz	Chairmen Bari	812313123	4
Nazmus Shakib	Khilkhet	8123176123	2
Majidul Haque	Uttara	8123123123	-
Ismail Hossain	Nodda	8123533123	-
Sakir Hossain	Notunbazar	8175123123	-

10 rows returned in 1.69 seconds CSV Export

➢ Self Join

- Write a query and display customer name and address by joining them

Home > SQL > SQL Commands

Autocommit Display 100

```
select c1.cus_name  ||'  From  '|| c2.cus_address as "Customer Details" from customer c1, customer c2 where c1.cus_name = c2.cus_name
```

Results Explain Describe Saved SQL History

Customer Details
Shibaji Mridha From Gulshan
Zahin Sayed From Banani
Bithi Paul From Mohakhali
Nazia Alfaz From Chairmen Bari
Nazmus Shakib From Khilkhet
Majidul Haque From Uttara
Ismail Hossain From Nodda
Sakir Hossain From Notunbazar
Nazmul Hossain From Rampura
Nadia Anam From Middle Badda

10 rows returned in 0.00 seconds CSV Export