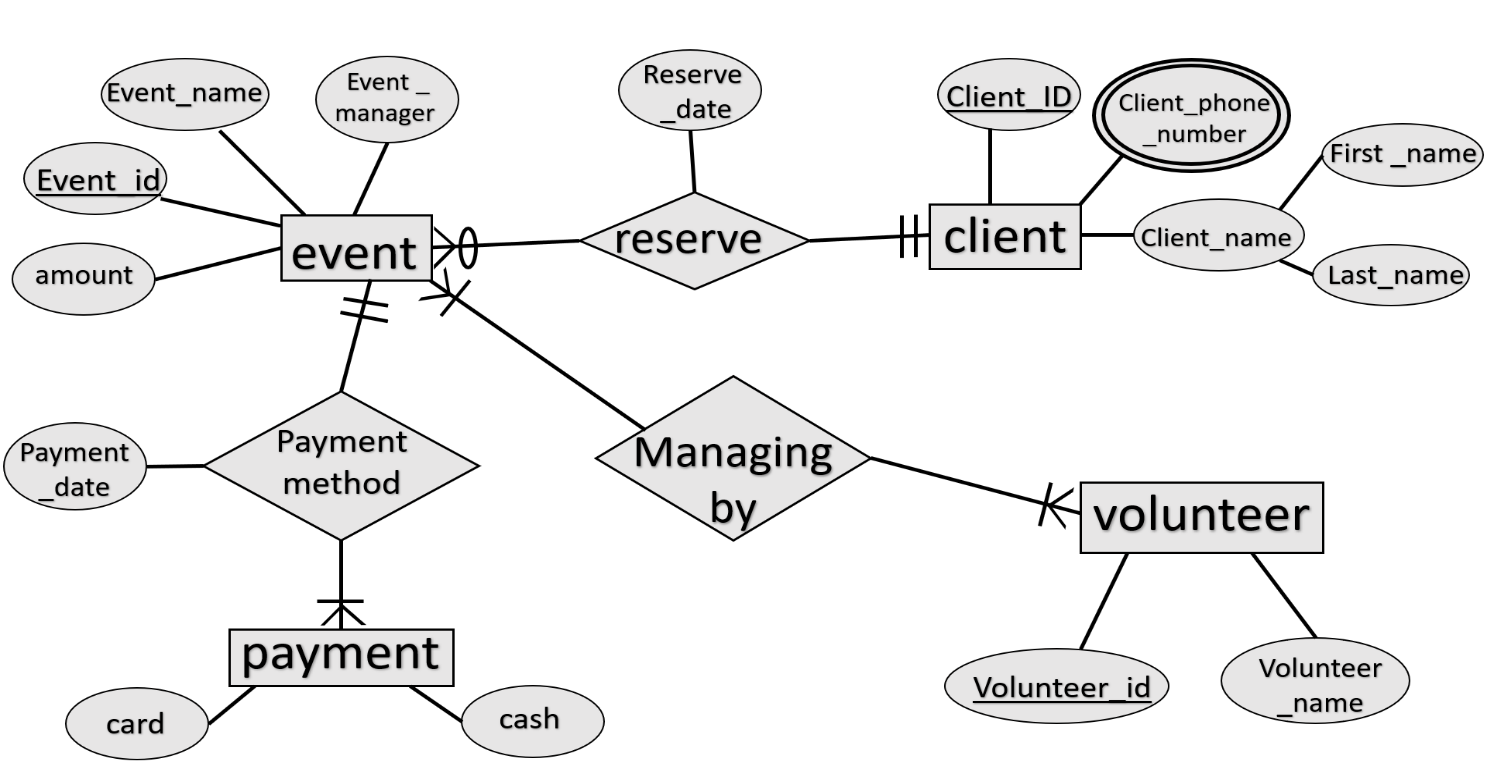
**wedding hall management system**

**Case study:**

In a wedding hall management system a client reserve many event. One event reserved by exactly one client. The system also stores client\_name, client\_phone\_number and client\_id. A client name is composed of first\_name and last\_name. A event is identified by Event\_manager, amount, event\_id and event\_name are store. While reserving a wedding hall, the date of the reservation is store. A event may be reserved by many member. To find the priority of the reservation the date of making the reservation is also store. A event is managing by many volunteer. A volunteer may manage many event but system store information of those volunteer of who has manage at least one event managing in the wedding hall. To identify an volunteer the system store volunteer\_id along with volunteer\_name. A event has two payment method. For payment there must be at least one event. Each payment has two property cash and card.

**Er diagram:**



**Normalization:**

reserve (Event\_id , amount, Event\_name, Event\_manager, client\_id, Client\_phone\_number, Client\_name, First\_name, Last\_name, reserve\_date)

**1NF:**  
Client\_phone\_number multivalued attribute

**2NF:**  
Event\_id, amount, Event\_name, Event\_manager, client\_id

client\_id, client\_phone\_number, client\_name, first\_name, last\_name

reserve\_id, Event\_id, client\_id, reserve\_date

**3NF:**

Event\_id, amount, Event\_name, Event\_manager, client\_id

client\_id, client\_phone\_number, name

name, client\_name, first\_name, last\_name

reserve\_id, Event\_id, client\_id, reserve\_date

**table:**

**Event\_id, amount, Event\_name, Event\_manager, client\_id**

**client\_id, client\_phone\_number, name**

**name, client\_name, first\_name, last\_name**

**reserve\_id, Event\_id, client\_id, reserve\_date**

Payment method(Event\_id , amount, Event\_name, Event\_manager, card, cash,Payment\_date)

**1NF:**  
No multivalued attribute

**2NF:**

Event\_id , amount, Event\_name, Event\_manager

Payment\_id, card, cash, event\_id

Payment\_date\_id, Event\_id , Payment\_id, Paymenty\_date

**3NF:**

Event\_id , amount, Event\_name, Event\_manager

Payment\_id, card, cash, enent\_id

Payment\_date\_id, Event\_id , Payment\_id, Paymenty\_date

No transitive dependency

**Table:**

**Event\_id , amount, Event\_name, Event\_manager**

**Payment\_id, card, cash, event\_id**

**Payment\_date\_id, Event\_id , Payment\_id, Paymenty\_date**

Managing by ( Event\_id , amount, Event\_name, Event\_manager, volunteer\_id, Volunteer\_name)

**1NF:**

No multivalued attribute

**2NF:**

Event\_id , amount, Event\_name, Event\_manager

volunteer\_id, Volunteer\_name

Event\_Volunteer\_id, Event\_id, volunteer\_id

**3NF:**

Event\_id , amount, Event\_name, Event\_manager

volunteer\_id, Volunteer\_name

Event\_Volunteer\_id, Event\_id, volunteer\_id

No transitive dependency

**Table:**

**Event\_id , amount, Event\_name, Event\_manager**

**volunteer\_id, Volunteer\_name**

**Event\_Volunteer\_id, Event\_id, volunteer\_id**

**Total table:**

**Event\_id, amount, Event\_name, Event\_manager, client\_id**

**Client\_id, client\_phone\_number, name**

**name, client\_name, first\_name, last\_name**

**reserve\_id, Event\_id, client\_id, reserve\_date**

**~~Event\_id , amount, Event\_name, Event\_manager~~**

**Payment\_id, card, cash, event\_id**

**Payment\_date\_id, Event\_id , Payment\_id, Paymenty\_date**

**~~Event\_id , amount, Event\_name, Event\_manager~~**

**volunteer\_id, Volunteer\_name**

**Event\_Volunteer\_id, Event\_id, volunteer\_id**

|  |
| --- |
| **Green** |

|  |
| --- |
| **Red** |

**à primary key à foreign key**

**Final table:**

1. **Event\_id, amount, Event\_name, Event\_manager, client\_id**
2. **Client\_id, client\_phone\_number, name\_serial**
3. **name\_ serial, client\_name, first\_name, last\_name**
4. **reserve\_id, Event\_id, client\_id, reserve\_date**
5. **Payment\_id, card, cash, event\_id**
6. **Payment\_date\_id, Event\_id , Payment\_id, Paymenty\_date**
7. **volunteer\_id, Volunteer\_name**
8. **Event\_Volunteer\_id, Event\_id, volunteer\_id**

**TABLE CREATE:**

**TABLE 1:**

create table client(

name\_serial number(35) constraint client\_nameserial\_pk primary key,

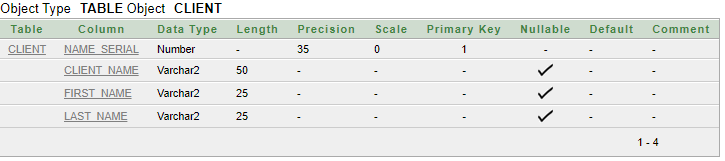
client\_name varchar2(50),

first\_name varchar2(25),

last\_name varchar2(25)

)

Desc client



**TABLE 2:**

create table information

(

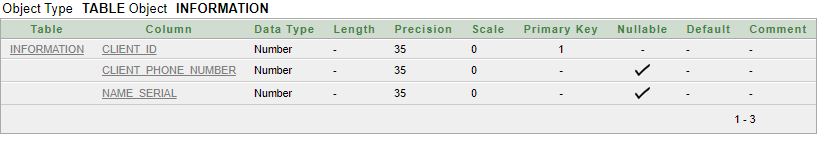
client\_id number(35) constraint information\_clientid\_pk primary key,

client\_phone\_number number(35) unique,

name\_serial number(35) constraint information\_nameserial\_fk references client(name\_serial)

)

desc information



**TABLE 3:**

create table event\_details

(

event\_id number(35) constraint eventdetails\_eventid\_pk primary key,

amount number(30) default 5000,

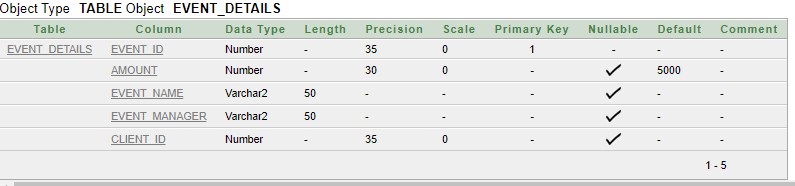
event\_name varchar2(50),

event\_manager varchar2(50),

client\_id number(35) constraint eventdetails\_clientid\_fk references information(client\_id)

)

desc event\_details



**TABLE 4:**

create table reservation

(

reserve\_id number(30) constraint reservation\_reserveid\_pk primary key,

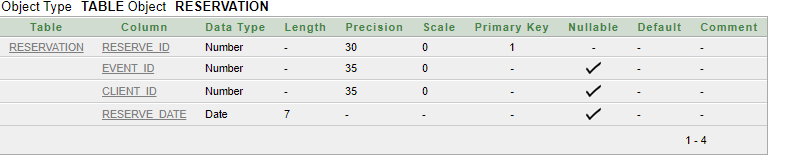
event\_id number(35) constraint reservation\_eventid\_fk references event\_details(event\_id),

client\_id number(35) constraint reservation\_clientid\_fk references information(client\_id),

reserve\_date date

)

desc reservation



**TABLE 5:**

create table payment\_method

(

payment\_id number(30) constraint paymentmethod\_paymentid\_pk primary key,

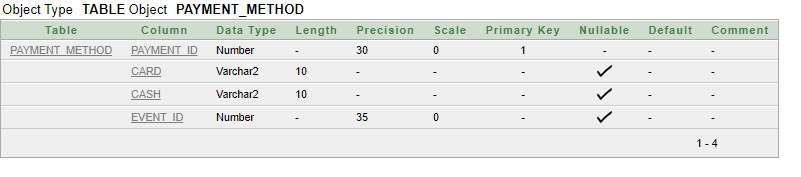
card varchar2(10),

cash varchar2(10),

event\_id number(35) constraint paymentmethod\_eventid\_fk references event\_details(event\_id)

)

desc payment\_method



**TABLE 6:**

create table payment\_record

(

payment\_date\_id number(30) constraint paymentrecord\_paymentdateid\_pk primary key,

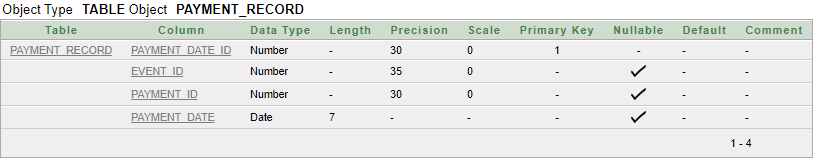
event\_id number(35) constraint paymentrecord\_eventid\_fk references event\_details(event\_id),

payment\_id number(30) constraint paymentrecord\_paymentid\_fk references payment\_method(payment\_id),

payment\_date date

)

desc payment\_record



**TABLE 7:**

create table volunteer

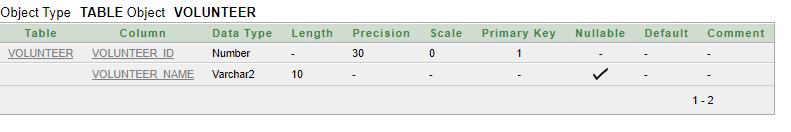
(

volunteer\_id number(30) constraint volunteer\_volunteerid\_pk primary key,

volunteer\_name varchar2(10)

)

desc volunteer



**TABLE 8:-**

create table volunteer\_info

(

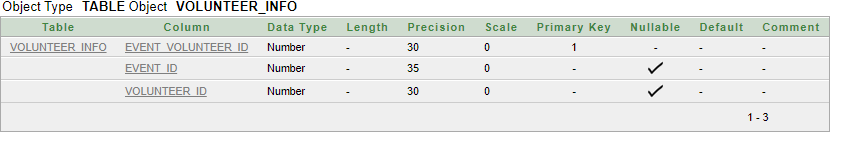
event\_volunteer\_id number(30) constraint volunteerdt\_evvolid\_pk primary key,

event\_id number(35) constraint volunteerdt\_eventid\_fk references event\_details(event\_id),

volunteer\_id number(30) constraint volunteerdt\_volunteerid\_fk references volunteer(volunteer\_id)

)

desc volunteer\_info



**Insertion:**

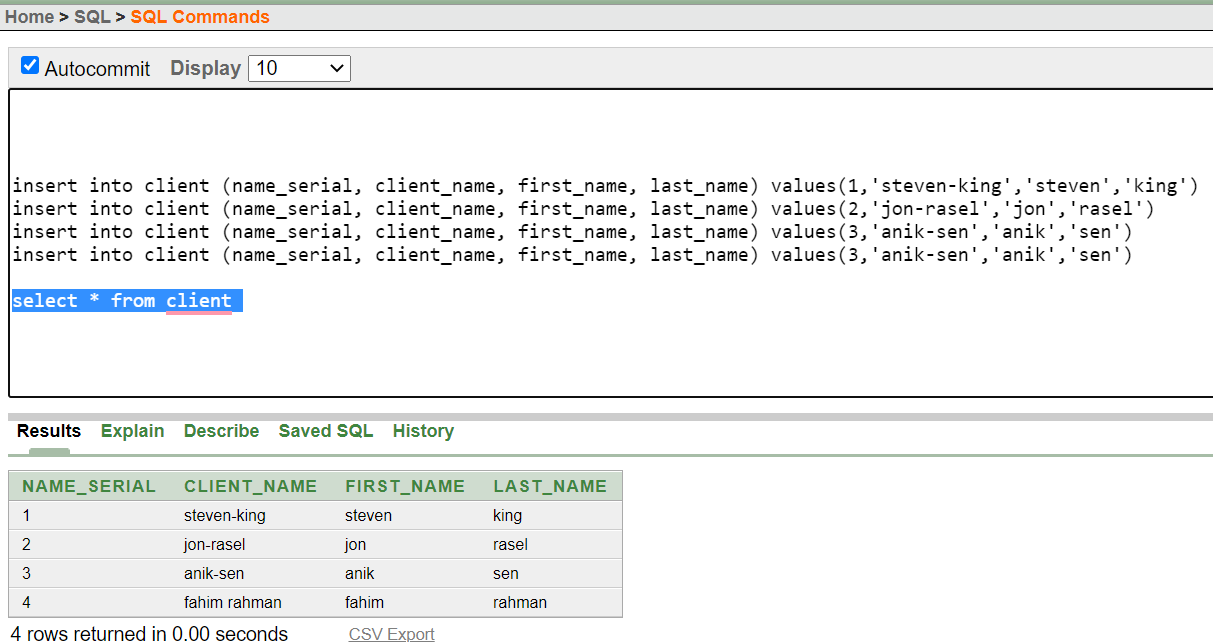
**TABLE 1:**

insert into client (name\_serial, client\_name, first\_name, last\_name) values(1,'steven-king','steven','king')

insert into client (name\_serial, client\_name, first\_name, last\_name) values(2,'jon-rasel','jon','rasel')

insert into client (name\_serial, client\_name, first\_name, last\_name) values(3,'anik-sen','anik','sen')

insert into client (name\_serial, client\_name, first\_name, last\_name) values(4,'fahim rahman','fahim','rahman')



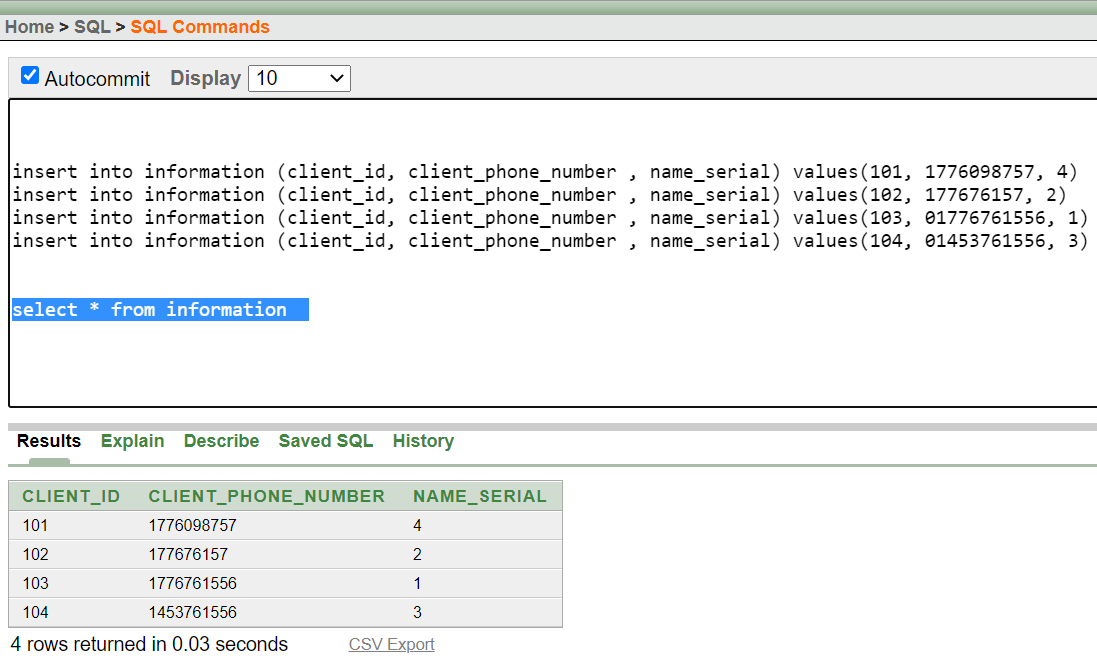
**TABLE 2:**

insert into information (client\_id, client\_phone\_number , name\_serial) values(101, 1776098757, 4)

insert into information (client\_id, client\_phone\_number , name\_serial) values(102, 177676157, 2)

insert into information (client\_id, client\_phone\_number , name\_serial) values(103, 01776761556, 1)

insert into information (client\_id, client\_phone\_number , name\_serial) values(104, 01453761556, 3)



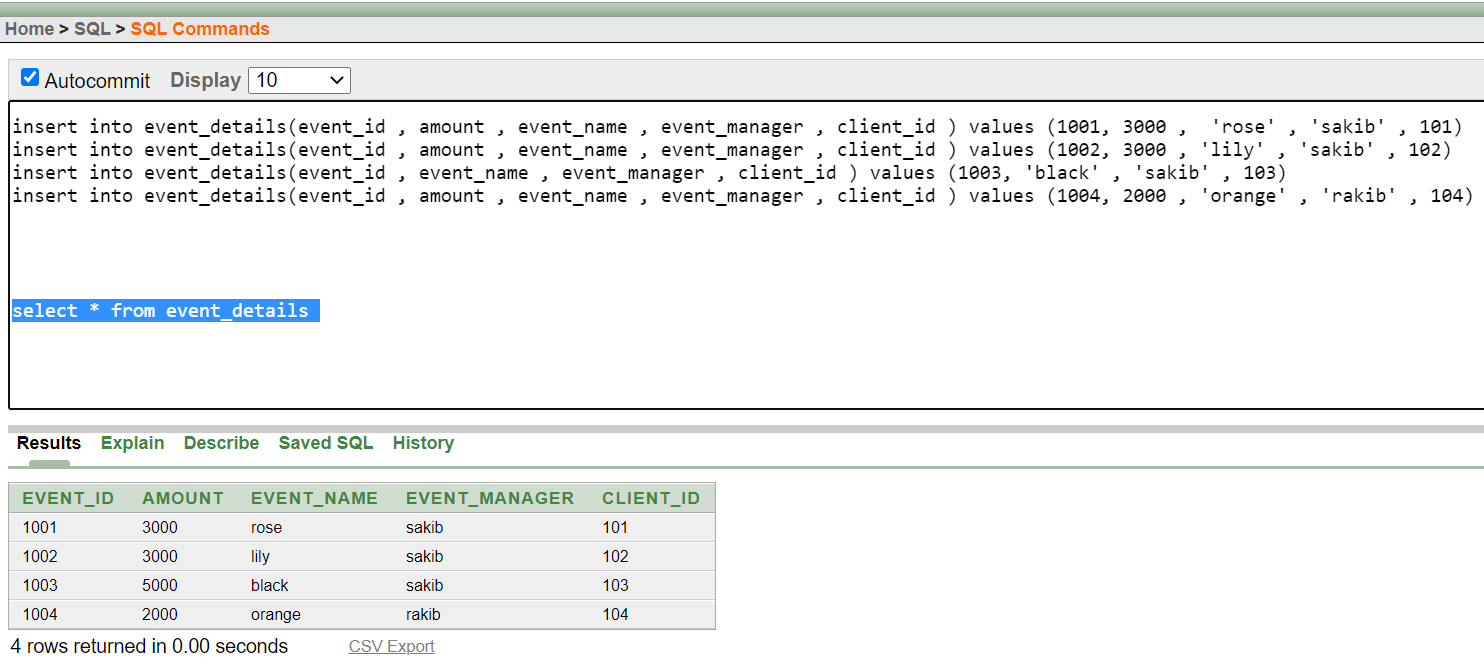
**TABLE 3:**

insert into event\_details(event\_id , amount , event\_name , event\_manager , client\_id ) values (1001, 3000 , 'rose' , 'sakib' , 101)

insert into event\_details(event\_id , amount , event\_name , event\_manager , client\_id ) values (1002, 3000 , 'lily' , 'sakib' , 102)

insert into event\_details(event\_id , event\_name , event\_manager , client\_id ) values (1003, 'black' , 'sakib' , 103)

insert into event\_details(event\_id , amount , event\_name , event\_manager , client\_id ) values (1004, 2000 , 'orange' , 'rakib' , 104)



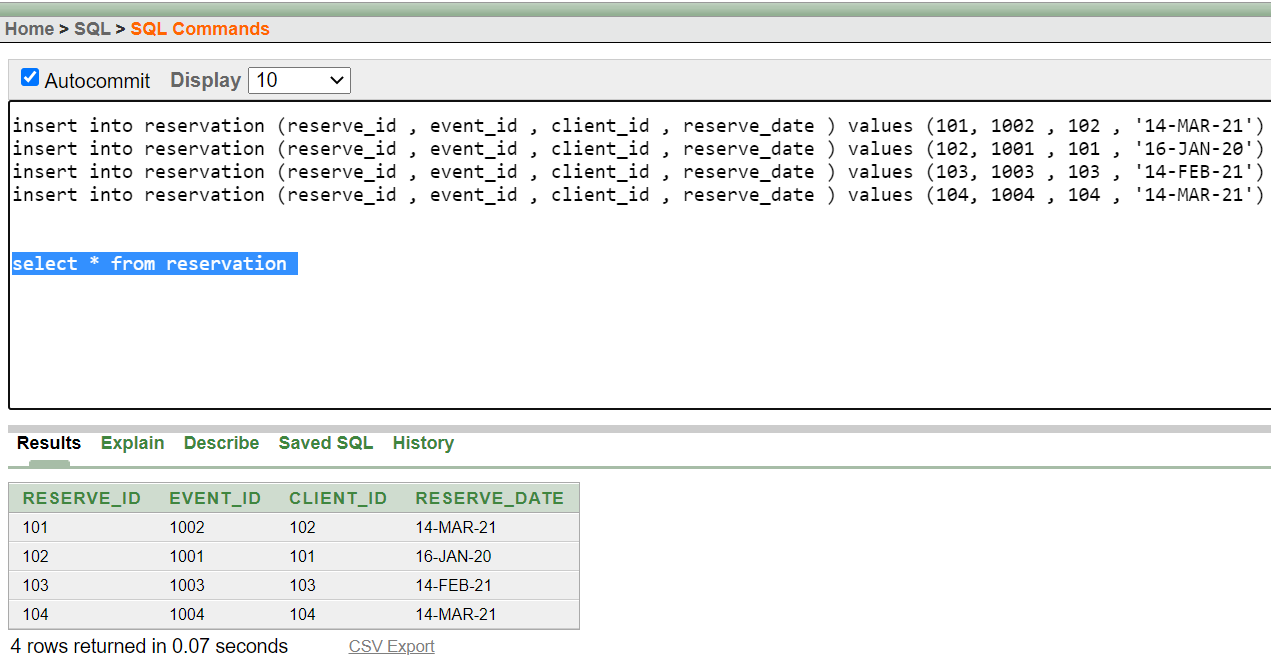
**TABLE 4:**

insert into reservation (reserve\_id , event\_id , client\_id , reserve\_date ) values (101, 1000 , 101 , '14-MAR-20')

insert into reservation (reserve\_id , event\_id , client\_id , reserve\_date ) values (102, 1001 , 102 , '16-JAN-20')

insert into reservation (reserve\_id , event\_id , client\_id , reserve\_date ) values (103, 1003 , 103 , '14-FEB-21')

insert into reservation (reserve\_id , event\_id , client\_id , reserve\_date ) values (104, 1004 , 104 , '14-MAR-21')



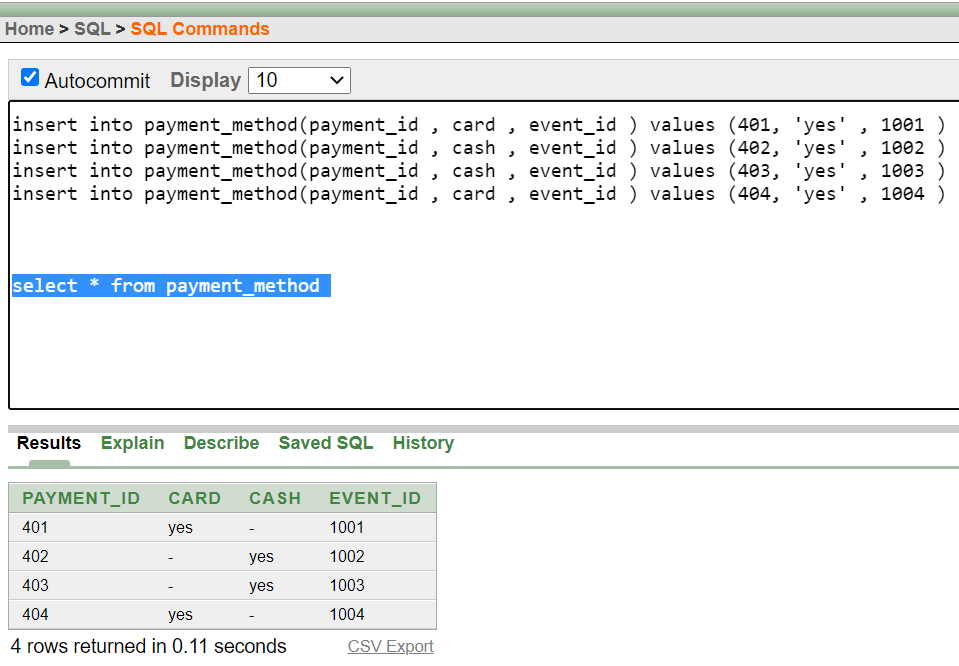
**TABLE 5:**

insert into payment\_method(payment\_id , card , event\_id ) values (401, 'yes' , 1001 )

insert into payment\_method(payment\_id , cash , event\_id ) values (402, 'yes' , 1002 )

insert into payment\_method(payment\_id , cash , event\_id ) values (403, 'yes' , 1003 )

insert into payment\_method(payment\_id , card , event\_id ) values (404, 'yes' , 1004 )



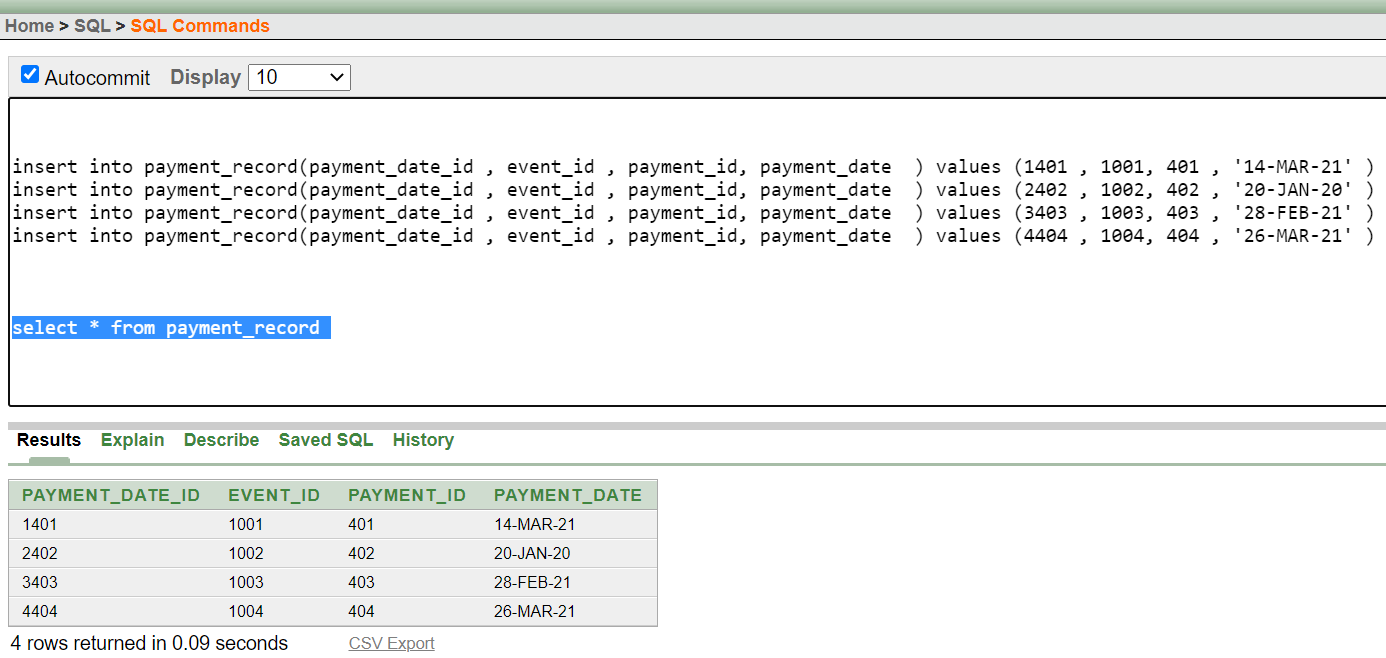
**TABLE 6:**

insert into payment\_record(payment\_date\_id , event\_id , payment\_id, payment\_date ) values (1401 , 1001, 401 , '14-MAR-21' )

insert into payment\_record(payment\_date\_id , event\_id , payment\_id, payment\_date ) values (2402 , 1002, 402 , '20-JAN-20' )

insert into payment\_record(payment\_date\_id , event\_id , payment\_id, payment\_date ) values (3403 , 1003, 403 , '28-FEB-21' )

insert into payment\_record(payment\_date\_id , event\_id , payment\_id, payment\_date ) values (4404 , 1004, 404 , '26-MAR-21' )



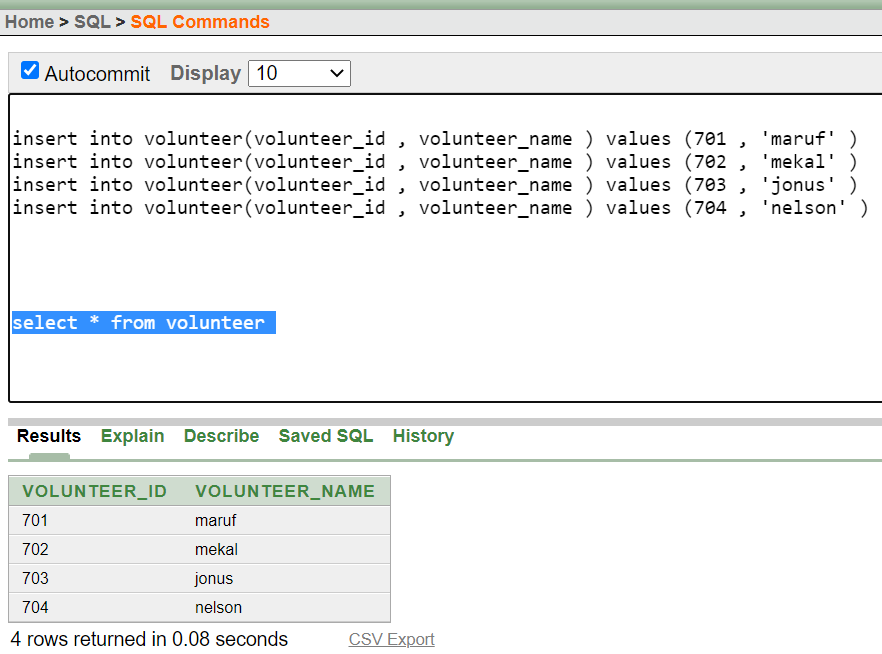
**TABLE 7:**

insert into volunteer(volunteer\_id , volunteer\_name ) values (701 , 'maruf' )

insert into volunteer(volunteer\_id , volunteer\_name ) values (702 , 'mekal' )

insert into volunteer(volunteer\_id , volunteer\_name ) values (703 , 'jonus' )

insert into volunteer(volunteer\_id , volunteer\_name ) values (704 , 'nelson' )



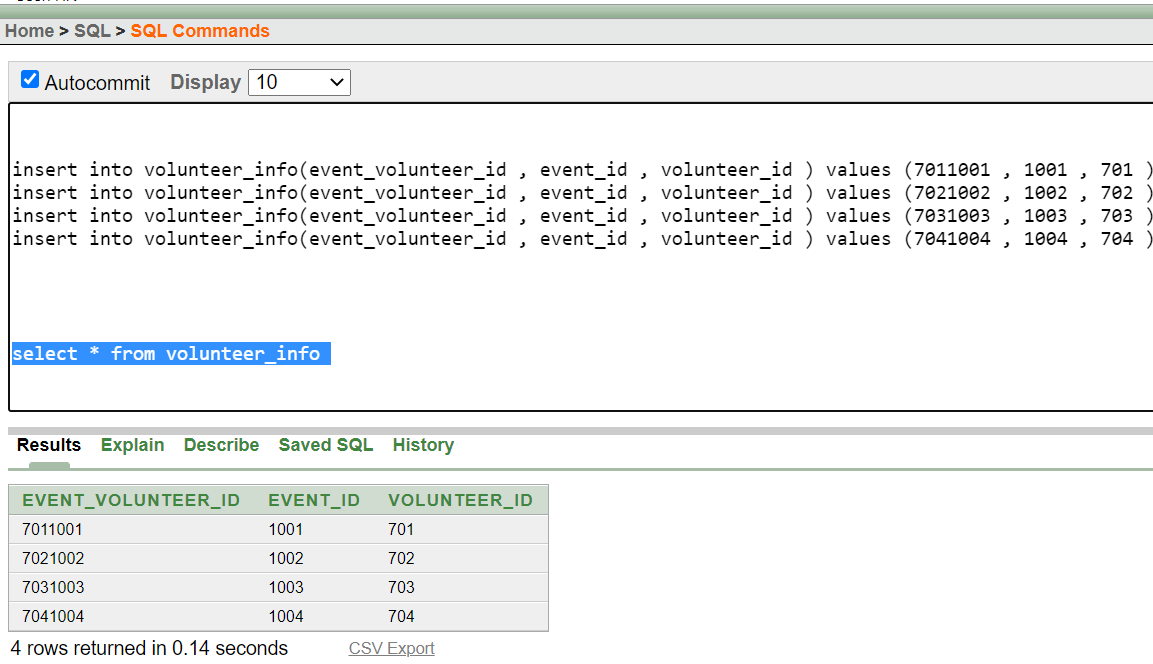
**TABLE 8:**

insert into volunteer\_info(event\_volunteer\_id , event\_id , volunteer\_id ) values (7011001 , 1001 , 701 )

insert into volunteer\_info(event\_volunteer\_id , event\_id , volunteer\_id ) values (7021002 , 1002 , 702 )

insert into volunteer\_info(event\_volunteer\_id , event\_id , volunteer\_id ) values (7031003 , 1003 , 703 )

insert into volunteer\_info(event\_volunteer\_id , event\_id , volunteer\_id ) values (7041004 , 1004 , 704 )

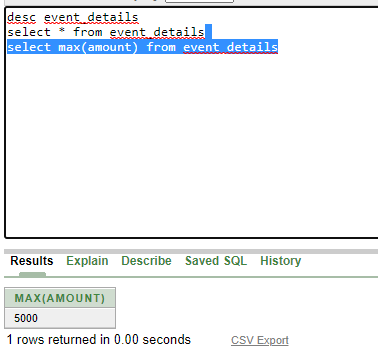


**QUERY WRITING:-**

**1.GROUP FUNCTION:**

**Q.DISPLAY MAX AMOUNT FROM EVENT DETAILS?**

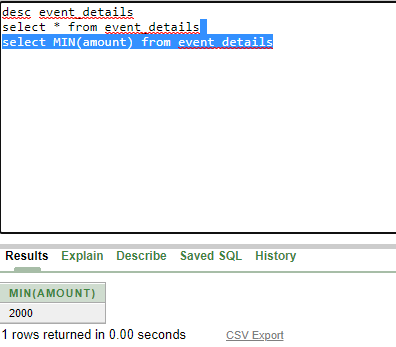
**ANS:** select max(amount) from event\_details



2)

**Q.DISPLAY MIN AMOUNT FROM EVENT DETAILS?**

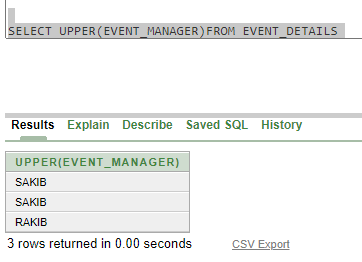
**ANS**: select MIN(amount) from event\_details



**3)SINGLE ROW FUNCTION:-**

**Q.DISPLAY EVENT MANAGERS NAME IN UPPER LETTER?**

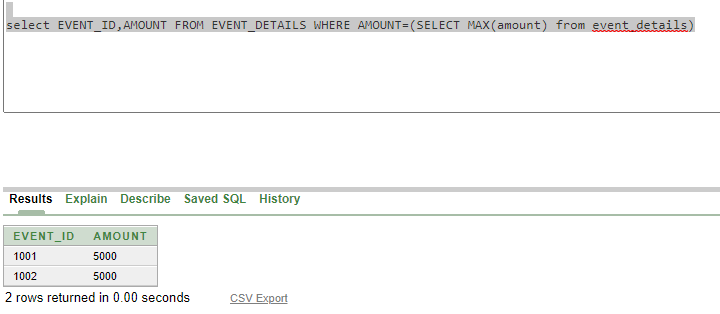
**ANS:** SELECT UPPER(EVENT\_MANAGER)FROM EVENT\_DETAILS



4)SUB QUERY:-

**Q.DISPLAY EVENT ID,AMOUNT WHOSE AMOUNT IS EQUAL TO MAX AMOUNT?**

**ANS**: select EVENT\_ID,AMOUNT FROM EVENT\_DETAILS WHERE AMOUNT=(SELECT MAX(amount) from event\_details)

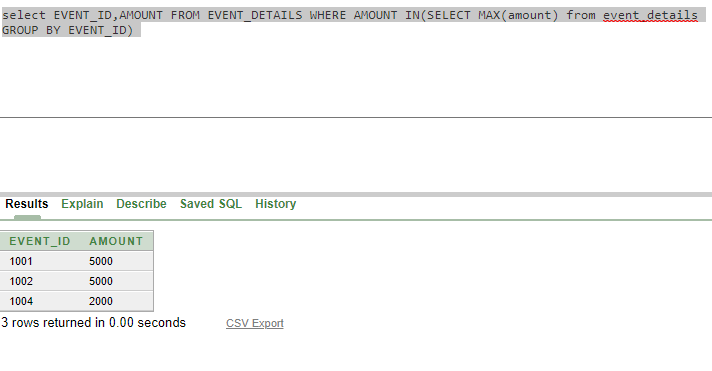


5)

**Q.DISPLAY EVENT ID WISE MAX AMOUNT?**

**ANS**: select EVENT\_ID,AMOUNT FROM EVENT\_DETAILS WHERE AMOUNT IN(SELECT MAX(amount) from event\_details

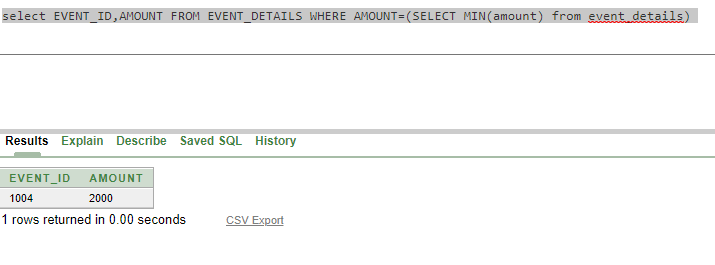
GROUP BY EVENT\_ID)



6)

**Q.DISPLAY EVENT ID ,AMOUNT WHOSE AMOUNT IS EQUAL TO MIN AMOUNT?**

**ANS**: select EVENT\_ID,AMOUNT FROM EVENT\_DETAILS WHERE AMOUNT=(SELECT MIN(amount) from event\_details)

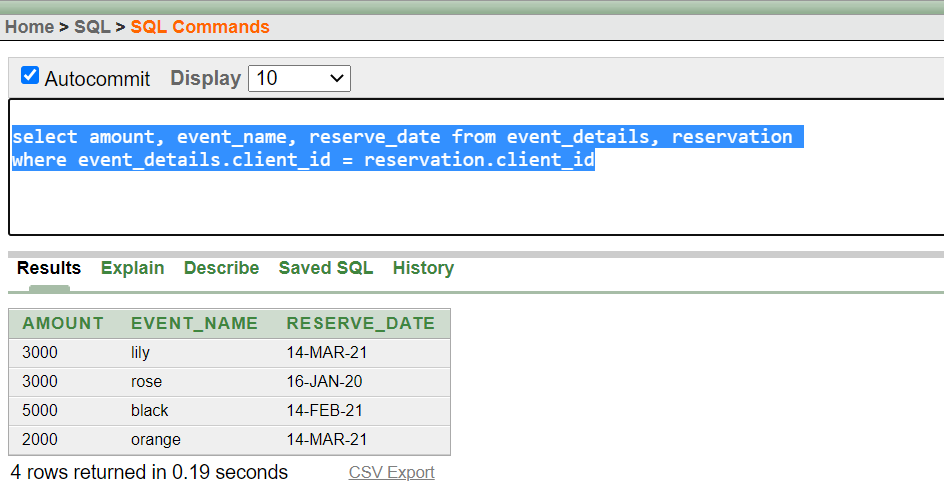


7) JOINING QUERY

**Q. display amount, event\_name, and reserve\_date**

**ANS**: select amount, event\_name, reserve\_date from event\_details, reservation

where event\_details.client\_id = reservation.client\_id

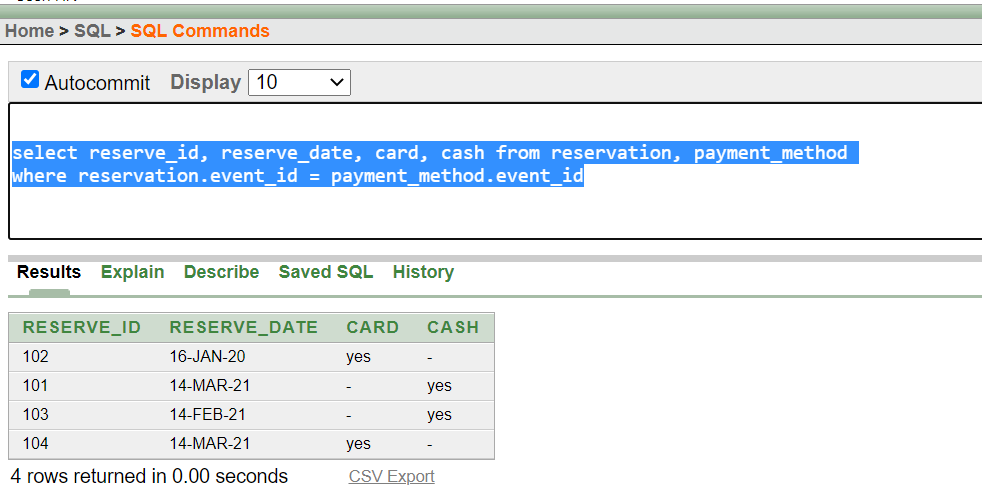


8) JOINING QUERY

**Q. display reserve\_id, reserve\_date, card, cash**

**ANS**: select reserve\_id, reserve\_date, card, cash from reservation, payment\_method

where reservation.event\_id = payment\_method.event\_id

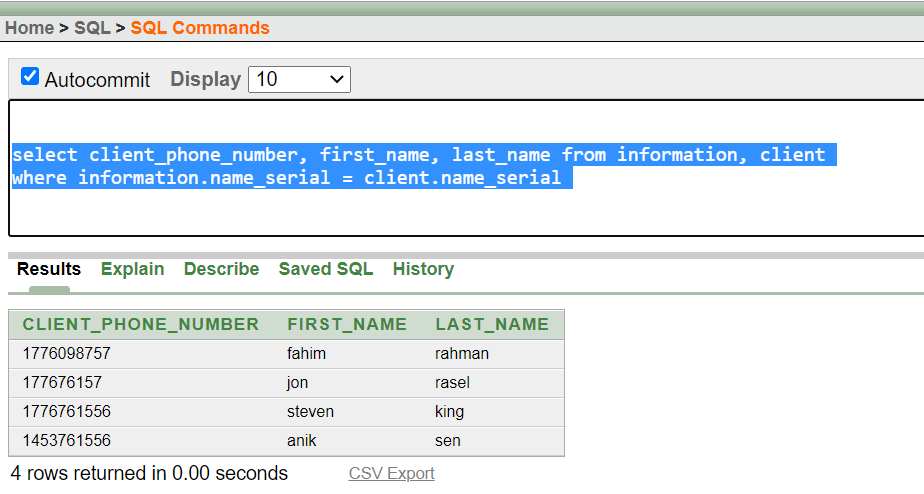


9) JOINING QUERY

**Q. display client\_phone\_number, first\_name, last\_name**

**ANS**: select client\_phone\_number, first\_name, last\_name from information, client

where information.name\_serial = client.name\_serial



**10)** view

**Q. create a view those who manager name sakib**

**ANS:** create or replace view empvu

as select \* from event\_details

where event\_manager = 'sakib'

