

ARTSEA

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IT-B

ABSTRACT:

This project is to create an Art Gallery Management System that keeps record of artists, their paintings, art gallery details, and showcases pictures of paintings to the customers. An art gallery is the place where the paintings of the artists are kept in there where people will be able to visit and view it. It intends to include various features related to an art gallery i.e. information about gallery, artists, their paintings, customers (the one who bought the paintings) etc. The main aim is to help art lovers know about different gallery details organized by different organizations, the art work included, the artists. People who wish to buy this art- work can very easily contact the artist.

List of tables:

- Gallery
- Artist
- Customer
- Painting

Relations Used:

- Have

- Paintby
- Brought

List of attributes with their domain types:

Gallery:

g_id : gallery id-int

g_name : gallery name-varchar(30)

location : varchar(20)

Artist:

a_id : artist id -int

a_name :artist name-varchar(20)

a_address : artist address -varchar(20)

a_phone : artist phone number - varchar(12)

Customer:

c_id: customer id -int

c_name: customer name-varchar(15)

c_address: address-varchar(30)

c_phone:customer phone number -varchar(12)

Painting:

p_id: painting id-int

title:varchar(20)

p_year : int

p_type:varchar(30)

Brought:

cid : int

pid: int

cost:cost of painting-int

Have:

aid : int

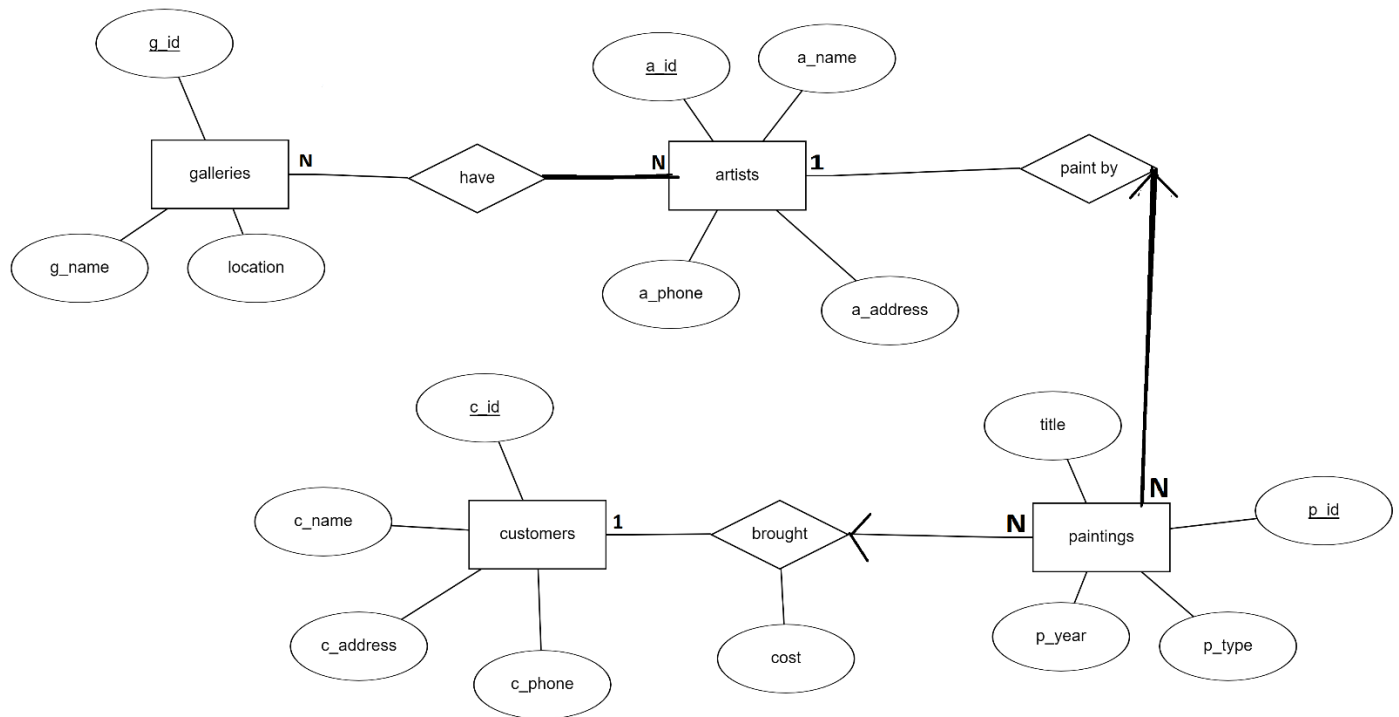
gid : int

PaintBy:

pid : int

aid : int

ER Diagram:



Mapping Cardinality and participation constraints:

One gallery can have many artists who put up their paintings and at the same one artist can show/put up their paintings in many galleries therefore this is a many to many relation.

One artist can paint many paintings but one painting is being painted by only one artist.

Therefore this is a one to many relation from artists to paintings . Every painting must be painted by one and only one artist, therefore it's a total participation from paintings' side . One customer can buy any number of paintings, but one painting can be bought by utmost 1 customer, therefore this is a one to many relationship from customers to paintings

DDL Commands:

1. create table **gallery**(
 G_id int,
 2 g_name varchar(30),
 3 location varchar(50),
 4 primary key(g_id));

```
SQL> create table gallery(g_id int,  
  2 g_name varchar(30),  
  3 location varchar(50),  
  4 primary key(g_id));
```

Table created.

```
SQL> desc gallery;
```

Name	Null?	Type
G_ID	NOT NULL	NUMBER(38)
G_NAME		VARCHAR2(30)
LOCATION		VARCHAR2(50)

2. create table **artist**(
 2 a_id int,
 3 a_name varchar(30),
 4 a_phone varchar(12),
 5 a_address varchar(60),
 6 primary key(a_id));

```
SQL> create table artist(  
  2 a_id int,  
  3 a_name varchar(30),  
  4 a_phone varchar(12),  
  5 a_address varchar(60),  
  6 primary key(a_id));
```

Table created.

```
SQL> desc artist;
```

Name	Null?	Type
A_ID	NOT NULL	NUMBER(38)
A_NAME		VARCHAR2(30)
A_PHONE		VARCHAR2(12)
A_ADDRESS		VARCHAR2(60)

3. create table **customer**(
2 c_id int,
3 c_name varchar(30),
4 c_address varchar(60),
5 c_phone varchar(12),
6 primary key(c_id));

```
SQL> create table customer(  
2  c_id int,  
3  c_name varchar(30),  
4  c_address varchar(60),  
5  c_phone varchar(12),  
6  primary key(c_id));
```

Table created.

```
SQL> desc customer;
```

Name	Null?	Type
C_ID	NOT NULL	NUMBER(38)
C_NAME		VARCHAR2(30)
C_ADDRESS		VARCHAR2(60)
C_PHONE		VARCHAR2(12)

- 4.create table **painting**(
2 p_id int,
3 title varchar(30),
4 p_year int,
5 p_type varchar(30),
6 primary key(p_id));

```
SQL> create table painting(
  2  p_id int,
  3  title varchar(30),
  4  p_year int,
  5  p_type varchar(30),
  6  primary key(p_id));
```

Table created.

```
SQL> desc painting;
```

Name	Null?	Type
P_ID	NOT NULL	NUMBER(38)
TITLE		VARCHAR2(30)
P_YEAR		NUMBER(38)
P_TYPE		VARCHAR2(30)

```
SQL>
```

```
5. create table have(
  2  aid int,
  3  gid int,
  4  constraint have_pkey primary key(aid,gid),
  5  constraint have_fkey_artist foreign key(aid) references artist(a_id) ON DELETE CASCADE,
  6  constraint have_fkey_gallery foreign key(gid) references gallery(g_id) ON DELETE
CASCADE);
```

```
SQL> create table have(
  2  aid int,
  3  gid int,
  4  constraint have_pkey primary key(aid,gid),
  5  constraint have_fkey_artist foreign key(aid) references artist(a_id) ON DELETE CASCADE,
  6  constraint have_fkey_gallery foreign key(gid) references gallery(g_id) ON DELETE CASCADE);
```

Table created.

```
SQL> desc have;
```

Name	Null?	Type
AID	NOT NULL	NUMBER(38)
GID	NOT NULL	NUMBER(38)

```
6.create table brought(
```

```

2 cid int,
3 pid int,
4 cost int NOT NULL,
5 constraint brought_pkey primary key(cid,pid),
6 constraint brought_fkey_customer foreign key(cid) references customer(c_id) ON DELETE
CASCADE,
7 constraint brought_fkey_painting foreign key(pid) references painting(p_id) ON DELETE
CASCADE);

```

```

SQL> create table brought(
  2 cid int,
  3 pid int,
  4 cost int NOT NULL,
  5 constraint brought_pkey primary key(cid,pid),
  6 constraint brought_fkey_customer foreign key(cid) references customer(c_id) ON DELETE CASCADE,
  7 constraint brought_fkey_painting foreign key(pid) references painting(p_id) ON DELETE CASCADE);

```

Table created.

```
SQL> desc brought;
```

Name	Null?	Type
CID	NOT NULL	NUMBER(38)
PID	NOT NULL	NUMBER(38)
COST	NOT NULL	NUMBER(38)

```

7.create table paintby(
  2 aid int,
  3 pid int,
  4 constraint paintby_pkey primary key(aid,pid),
  5 constraint paintby_fkey_artist foreign key(aid) references artist(a_id) ON DELETE
CASCADE,
  6 constraint paintby_fkey_painting foreign key(pid) references painting(p_id) ON DELETE
CASCADE);

```

```

SQL> create table paintby(
  2 aid int,
  3 pid int,
  4 constraint paintby_pkey primary key(aid,pid),
  5 constraint paintby_fkey_artist foreign key(aid) references artist(a_id) ON DELETE CASCADE,
  6 constraint paintby_fkey_painting foreign key(pid) references painting(p_id) ON DELETE CASCADE);

```

Table created.


```
SQL> desc paintby;
```

Name	Null?	Type
AID	NOT NULL	NUMBER(38)
PID	NOT NULL	NUMBER(38)

DML COMMANDS :

1.insert into gallery values(&g_id,&g_name,&location');

```
SQL> insert into gallery values(&g_id,&g_name,&location');
Enter value for g_id: 22
Enter value for g_name: art attack
Enter value for location: chennai
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(22,'art attack','chennai')

1 row created.
```

```
SQL> /
Enter value for g_id: 50
Enter value for g_name: clay&paper
Enter value for location: banglore
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(50,'clay&paper','banglore')

1 row created.
```

```
SQL> /
Enter value for g_id: 46
Enter value for g_name: artfactory
Enter value for location: hyderabad
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(46,'artfactory','hyderabad')

1 row created.
```

```
SQL> /
Enter value for g_id: 65
Enter value for g_name: colorsplash
Enter value for location: goa
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(65,'colorsplash','goa')

1 row created.
```

```
SQL> /
Enter value for g_id: 20
Enter value for g_name: artconnection
Enter value for location: mumbai
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(20,'artconnection','mumbai')

1 row created.
```

```
SQL> /
Enter value for g_id: 80
Enter value for g_name: brilliant_brushes
Enter value for location: vizag
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(80,'brilliant_brushes','vizag')

1 row created.
```

```
SQL> /
Enter value for g_id: 32
Enter value for g_name: art&ink
Enter value for location: jaipur
old 1: insert into gallery values(&g_id,&g_name,&location')
new 1: insert into gallery values(32,'art&ink','jaipur')

1 row created.
```

```
SQL> select g_id,g_name,location from gallery;
```

G_ID	G_NAME	LOCATION
22	art attack	chennai
50	clay&paper	banglore
46	artfactory	hyderabad
65	colorsplash	goa
20	artconnection	mumbai
80	brilliant_brushes	vizag
32	art&ink	jaipur

```
7 rows selected.
```

2. insert into artist values(&a_id,&a_name,&a_phone,&a_address');

```
SQL> insert into artist values(&a_id,&a_name,&a_phone,&a_address');
Enter value for a_id: 12
Enter value for a_name: john
Enter value for a_phone: 9876543234
Enter value for a_address: street-5/pune
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(12,'john',9876543234,'street-5/pune')

1 row created.
```

```
SQL> insert into artist values(&a_id,&a_name,&a_phone,&a_address');
Enter value for a_id: 44
Enter value for a_name: Ravi
Enter value for a_phone: 6543298751
Enter value for a_address: street-11/banglore
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(44,'Ravi',6543298751,'street-11/banglore')

1 row created.
```

```
SQL> /
Enter value for a_id: 5
Enter value for a_name: priya
Enter value for a_phone: 8354789023
Enter value for a_address: street-2/goa
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(5,'priya',8354789023,'street-2/goa')

1 row created.
```

```
SQL> insert into artist values(&a_id,&a_name,&a_phone,&a_address');
Enter value for a_id: 59
Enter value for a_name: akshaya
Enter value for a_phone: 7654345632
Enter value for a_address: street-16/mumbai
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(59,'akshaya',7654345632,'street-16/mumbai')

1 row created.
```

```
SQL> /
Enter value for a_id: 89
Enter value for a_name: Rahul
Enter value for a_phone: 6789345612
Enter value for a_address: street-8/vizag
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(89,'Rahul',6789345612,'street-8/vizag')

1 row created.
```

```
SQL> /
Enter value for a_id: 30
Enter value for a_name: shreya
Enter value for a_phone: 7890561243
Enter value for a_address: street-19/hyd
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(30,'shreya',7890561243,'street-19/hyd')

1 row created.
```

```

SQL> /
Enter value for a_id: 69
Enter value for a_name: keerthi
Enter value for a_phone: 9870345215
Enter value for a_address: street-3/ranchi
old 1: insert into artist values(&a_id,&a_name,&a_phone,&a_address')
new 1: insert into artist values(69,'keerthi',9870345215,'street-3/ranchi')

1 row created.

```

```

SQL> select * from artist;

```

A_ID	A_NAME	A_PHONE	A_ADDRESS
12	john	9876543234	street-5/pune
44	Ravi	6543298751	street-11/banglore
5	priya	8354789023	street-2/goa
59	akshaya	7654345632	street-16/mumbai
89	Rahul	6789345612	street-8/vizag
30	shreya	7890561243	street-19/hyd
69	keerthi	9870345215	street-3/ranchi

```

7 rows selected.

```

3. insert into customer values(&c_id,&c_name,&c_address,&c_phone');

```

SQL> insert into customer values(&c_id,&c_name,&c_address,&c_phone');
Enter value for c_id: 10
Enter value for c_name: anusha
Enter value for c_address: hno-3-10 KPHB
Enter value for c_phone: 6789345612
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(10,'anusha','hno-3-10 KPHB','6789345612')

1 row created.

```

```
SQL> /
Enter value for c_id: 77
Enter value for c_name: dhanya
Enter value for c_address: hno-5-6 picket
Enter value for c_phone: 9807654318
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(77,'dhanya','hno-5-6 picket','9807654318')

1 row created.
```

```
SQL> /
Enter value for c_id: 73
Enter value for c_name: pooja
Enter value for c_address: jno-75-tirumalgiri
Enter value for c_phone: 7634908156
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(73,'pooja','jno-75-tirumalgiri','7634908156')

1 row created.
```

```
SQL> /
Enter value for c_id: 45
Enter value for c_name: rishab
Enter value for c_address: hno-6 suchitra
Enter value for c_phone: 6745120965
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(45,'rishab','hno-6 suchitra','6745120965')

1 row created.
```

```
SQL> insert into customer values(&c_id,&c_name,&c_address,&c_phone');
Enter value for c_id: 88
Enter value for c_name: karan
Enter value for c_address: hno-16-begumpet
Enter value for c_phone: 9256098723
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(88,'karan','hno-16-begumpet','9256098723')

1 row created.
```

```

SQL> /
Enter value for c_id: 103
Enter value for c_name: ganesh
Enter value for c_address: hno-11-kompally
Enter value for c_phone: 9471360987\
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(103,'ganesh','hno-11-kompally','9471360987\')

1 row created.

```

```

SQL> insert into customer values(&c_id,&c_name,&c_address,&c_phone');
Enter value for c_id: 105
Enter value for c_name: Rishi
Enter value for c_address: hno-99-Boinpally
Enter value for c_phone: 6789456734
old 1: insert into customer values(&c_id,&c_name,&c_address,&c_phone')
new 1: insert into customer values(105,'Rishi','hno-99-Boinpally','6789456734')

1 row created.

```

```

SQL> select * from customer;

```

C_ID	C_NAME	C_ADDRESS	C_PHONE
10	anusha	hno-3-10 KPHB	6789345612
77	dhanya	hno-5-6 picket	9807654318
73	pooja	hn0-75-tirumalgiri	7634908156
45	rishab	hno-6 suchitra	6745120965
88	karan	hno-16-begumpet	9256098723
103	ganesh	hno-11-kompally	9413768954
105	Rishi	hno-99-Boinpally	6789456734

```

7 rows selected.

```

4. insert into painting values(&p_id,&title,&p_year,&p_type');

```

SQL> insert into painting values(&p_id,&title,&p_year,&p_type');
Enter value for p_id: 101
Enter value for title: moon light
Enter value for p_year: 2000
Enter value for p_type: acrylic
old 1: insert into painting values(&p_id,&title,&p_year,&p_type')
new 1: insert into painting values(101,'moon light',2000,'acrylic')

1 row created.

```

```
SQL> /
Enter value for p_id: 102
Enter value for title: autumn evening
Enter value for p_year: 2019
Enter value for p_type: oil painting
old 1: insert into painting values(&p_id,&'title',&p_year,&'p_type')
new 1: insert into painting values(102,'autumn evening',2019,'oil painting')

1 row created.
```

```
SQL> /
Enter value for p_id: 110
Enter value for title: dagger of light
Enter value for p_year: 2013
Enter value for p_type: ink
old 1: insert into painting values(&p_id,&'title',&p_year,&'p_type')
new 1: insert into painting values(110,'dagger of light',2013,'ink')

1 row created.
```

```
SQL> /
Enter value for p_id: 120
Enter value for title: seagull
Enter value for p_year: 1986
Enter value for p_type: pastel
old 1: insert into painting values(&p_id,&'title',&p_year,&'p_type')
new 1: insert into painting values(120,'seagull',1986,'pastel')

1 row created.
```

```
SQL> /
Enter value for p_id: 118
Enter value for title: blossom
Enter value for p_year: 1900
Enter value for p_type: micro art
old 1: insert into painting values(&p_id,&'title',&p_year,&'p_type')
new 1: insert into painting values(118,'blossom',1900,'micro art')

1 row created.
```



```

SQL> /
Enter value for p_id: 150
Enter value for title: memories
Enter value for p_year: 2008
Enter value for p_type: charcoal painting
old 1: insert into painting values(&p_id,&title,&p_year,&p_type')
new 1: insert into painting values(150,'memories',2008,'charcoal painting')

1 row created.

```

```

SQL> /
Enter value for p_id: 200
Enter value for title: haze of light
Enter value for p_year: 1967
Enter value for p_type: water color
old 1: insert into painting values(&p_id,&title,&p_year,&p_type')
new 1: insert into painting values(200,'haze of light ',1967,'water color ')

1 row created.

```

```

SQL> /
Enter value for p_id: 141
Enter value for title: sparkle
Enter value for p_year: 2002
Enter value for p_type: pencil sketch
old 1: insert into painting values(&p_id,&title,&p_year,&p_type')
new 1: insert into painting values(141,'sparkle',2002,'pencil sketch')

1 row created.

```

```

SQL> select * from painting;

```

P_ID	TITLE	P_YEAR	P_TYPE
101	moon light	2000	acrylic
102	autumn evening	2019	oil painting
110	dagger of light	2013	ink
120	seagull	1986	pastel
118	blossom	1900	micro art
150	memories	2008	charcoal painting
200	haze of light	1967	water color
141	sparkle	2002	pencil sketch

```

8 rows selected.

```

5. insert into have values(&aid,&gid);

```
SQL> insert into have values(&aid,&gid);
Enter value for aid: 5
Enter value for gid: 50
old 1: insert into have values(&aid,&gid)
new 1: insert into have values(5,50)

1 row created.
```

```
SQL> /
Enter value for aid: 59
Enter value for gid: 22
old 1: insert into have values(&aid,&gid)
new 1: insert into have values(59,22)

1 row created.
```

```
SQL> /
Enter value for aid: 30
Enter value for gid: 80
old 1: insert into have values(&aid,&gid)
new 1: insert into have values(30 ,80)

1 row created.
```

```
SQL> /
Enter value for aid: 12
Enter value for gid: 65
old 1: insert into have values(&aid,&gid)
new 1: insert into have values(12,65)

1 row created.
```

```
SQL> /  
Enter value for aid: 44  
Enter value for gid: 22  
old 1: insert into have values(&aid,&gid)  
new 1: insert into have values(44,22)  
  
1 row created.
```

```
SQL> /  
Enter value for aid: 30  
Enter value for gid: 46  
old 1: insert into have values(&aid,&gid)  
new 1: insert into have values(30,46)  
  
1 row created.
```

```
SQL> /  
Enter value for aid: 44  
Enter value for gid: 20  
old 1: insert into have values(&aid,&gid)  
new 1: insert into have values(44,20)  
  
1 row created.
```

```
SQL> /  
Enter value for aid: 89  
Enter value for gid: 32  
old 1: insert into have values(&aid,&gid)  
new 1: insert into have values(89,32)  
  
1 row created.
```

```
SQL> select * from have;
```

AID	GID
5	50
12	65
30	46
30	80
44	20
44	22
59	22
89	32

```
8 rows selected.
```

6. insert into paintby values(&aid,&pid);

```
SQL> insert into paintby values(&aid,&pid);
Enter value for aid: 59
Enter value for pid: 150
old 1: insert into paintby values(&aid,&pid)
new 1: insert into paintby values(59,150)

1 row created.
```

```
SQL> /
Enter value for aid: 30
Enter value for pid: 120
old 1: insert into paintby values(&aid,&pid)
new 1: insert into paintby values(30,120)

1 row created.
```

```
SQL> /  
Enter value for aid: 69  
Enter value for pid: 101  
old 1: insert into paintby values(&aid,&pid)  
new 1: insert into paintby values(69,101)  
  
1 row created.
```

```
SQL> /  
Enter value for aid: 5  
Enter value for pid: 101  
old 1: insert into paintby values(&aid,&pid)  
new 1: insert into paintby values(5,101)  
  
1 row created.
```

```
1 row created.  
  
SQL> /  
Enter value for aid: 12  
Enter value for pid: 102  
old 1: insert into paintby values(&aid,&pid)  
new 1: insert into paintby values(12,102)  
  
1 row created.
```

```
SQL> /  
Enter value for aid: 89  
Enter value for pid: 141  
old 1: insert into paintby values(&aid,&pid)  
new 1: insert into paintby values(89,141)  
  
1 row created.
```

```
SQL> /
Enter value for aid: 30
Enter value for pid: 118
old 1: insert into paintby values(&aid,&pid)
new 1: insert into paintby values(30,118)

1 row created.
```

```
SQL> /
Enter value for aid: 44
Enter value for pid: 200
old 1: insert into paintby values(&aid,&pid)
new 1: insert into paintby values(44,200)

1 row created.
```

```
SQL> select * from paintby;
```

AID	PID
5	101
12	102
30	118
30	120
44	200
59	150
69	101
89	141

```
8 rows selected.
```

7.insert into brought values(&cid,&pid,&cost);

```
SQL> insert into brought values(&cid,&pid,&cost);
Enter value for cid: 10
Enter value for pid: 118
Enter value for cost: 10000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(10,118,10000)

1 row created.
```

```
SQL> /
Enter value for cid: 10
Enter value for pid: 120
Enter value for cost: 5000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(10,120,5000)

1 row created.
```

```
SQL> /
Enter value for cid: 88
Enter value for pid: 102
Enter value for cost: 3500
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(88,102,3500)

1 row created.
```

```
SQL> /
Enter value for cid: 105
Enter value for pid: 141
Enter value for cost: 25000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(105,141,25000)

1 row created.
```

```
SQL> /
Enter value for cid: 73
Enter value for pid: 200
Enter value for cost: 15000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(73,200,15000)

1 row created.
```

```
SQL> /
Enter value for cid: 77
Enter value for pid: 101
Enter value for cost: 8000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(77,101,8000)

1 row created.
```

```
SQL> /
Enter value for cid: 103
Enter value for pid: 150
Enter value for cost: 30000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(103,150,30000)

1 row created.
```

```
SQL> /
Enter value for cid: 88
Enter value for pid: 200
Enter value for cost: 50000
old 1: insert into brought values(&cid,&pid,&cost)
new 1: insert into brought values(88,200,50000)

1 row created.
```



```
SQL> select * from brought;
```

CID	PID	COST
10	118	10000
10	120	5000
88	102	3500
105	141	25000
73	200	15000
77	101	8000
103	150	30000
88	200	50000

```
8 rows selected.
```