

# **Court Management System**

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**1602-19-737-308**

**DBMS**

## **ABSTRACT:-**

The Court Management System is a Design framework for computerizing the legal administrations in India. Utilizing this framework, offended party can without much of a stretch offer grievance to the concerned expert and they can see status of their cases and so forth. This framework will decrease the time and hazard to the clients contrast and manual framework. The undertaking performs expected capacity with required accuracy. Considering the current scenario (pandemic situation) this app is very much useful for different sections of people and a lot of physical process has been reduced.

## REQUIREMENT ANALYSIS

### List of tables:

- Client
- Advocate
- Types
- Court
- Slot
- Booking
- Selects
- Has
- Has\_Timings

## List of attributes with their domain type:-

### Client:

Id of the client: client\_id - number

Name of the client: client\_name - varchar2(20)

Password: client\_pass - varchar2(20)

### Advocate:

Id of the advocate: advocate\_id - number

Name of the advocate: advocate\_name - varchar2(20)

Rating of the advocate: advocate\_rating - varchar2(20)

### Types:

Type of advocate: advocate\_type - varchar2(20)

Experience: experience – number

Advocate type id: advocate\_type\_id - varchar2(20)

### Court:

Pincode: pincode - number

State name: state\_name - varchar2(20)

City name: city\_name - varchar2(20)

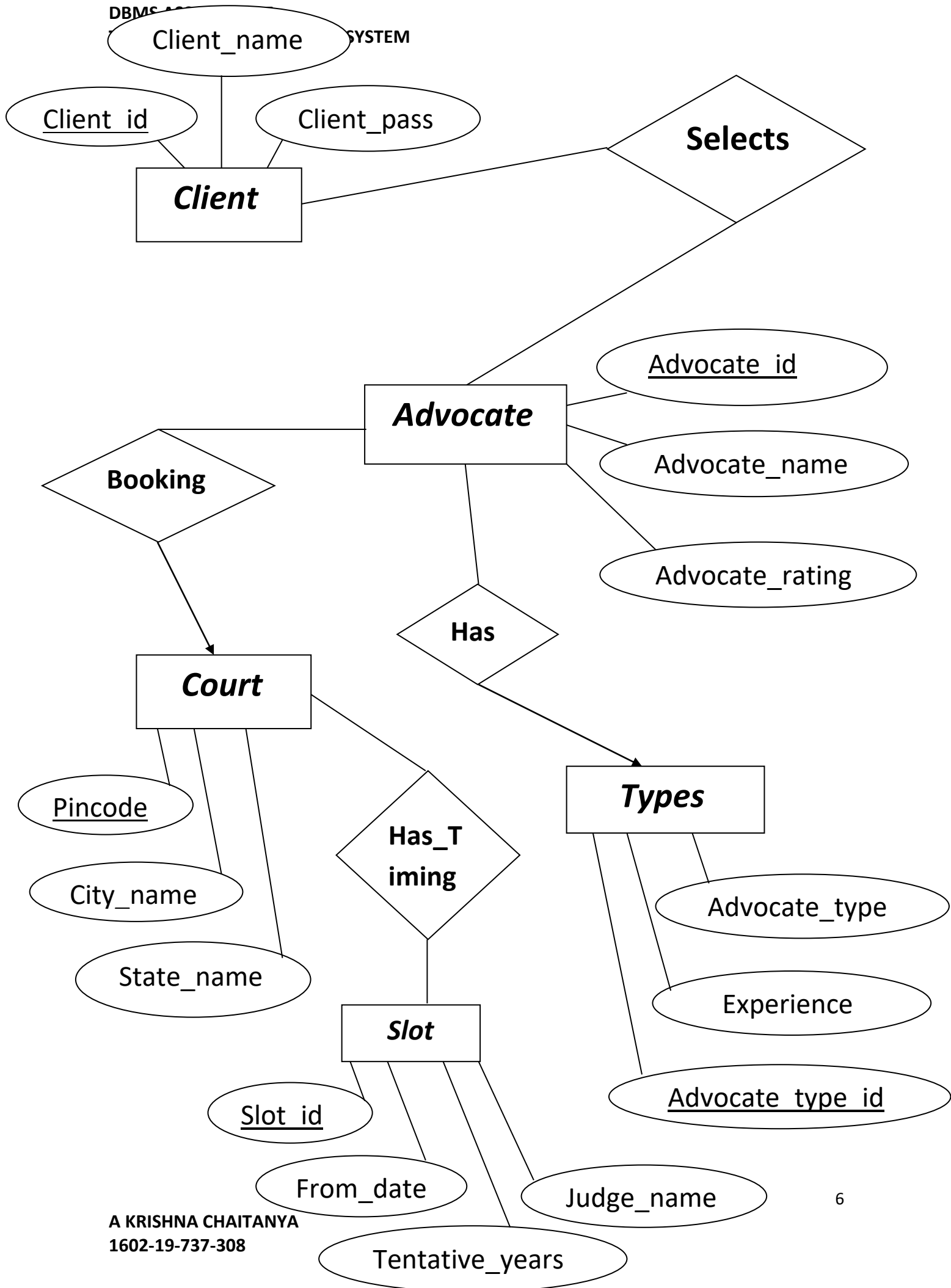
## Slot:

Id of the slot: slot\_id – varchar2(20)

Starting date: from\_date - varchar2(10)

Approximate duration: tentative\_years - number

Name of the judge: judge\_name - varchar2(20)



## **MAPPING CARDINALITY AND PARTICIATION CONSTRAINTS**

The client can select more than one advocate and advocate can also have more than one client, which is many to many participation.

Advocate can only choose a single type and there can be many advocates under single type, which is many to one participation.

Advocate can only select/book single court but a court can have more than one booking, which is many to one participation.

Court can have more than one slot which is many to many participation.

## **DDL COMMANDS**

```
create table client(
```

```
client_id number primary key, client_name varchar2(20), client_pass  
varchar2(20));
```

```
create table advocate(
```

```
advocate_id number primary key, advocate_name varchar2(20),  
advocate_rating varchar2(20));
```

```
create table types(
```

```
advocate_type varchar2(20), experience number, advocate_type_id  
varchar2(20) primary key);
```

```
create table court(
```

```
pincode number primary key, state_name varchar2(20), city_name  
varchar2(20));
```

```
create table slot(
```

```
slot_id varchar2(20) primary key, from_date varchar2(10), tentative_years  
number, judge_name varchar2(20));
```

```
create table selects(
```

```
client_id number, advocate_id number, foreign key(client_id) references  
client(client_id), foreign key(advocate_id) references advocate(advocate_id));
```

```
create table has(
```

```
advocate_id number, advocate_type_id varchar2(20), foreign key(advocate_id)  
references advocate(advocate_id), foreign key(advocate_type_id) references  
types(advocate_type_id));
```



create table booking(

advocate\_id number, pincode number, foreign key(advocate\_id) references  
advocate(advocate\_id), foreign key(pincode) references court(pincode));

create table has\_timings(

pincode number, slot\_id varchar2(20), foreign key(pincode) references  
court(pincode), foreign key(slot\_id) references slot(slot\_id));

## **DML COMMANDS**

1. Insert into client values(&client\_id,'&client\_name','&client\_pass');
2. Insert into advocate  
values(&advocate\_id,'&advocate\_name','&advocate\_rating');
3. Insert into types  
values('&advocate\_type',&experience,'&advocate\_type\_id');
4. Insert into court values(&pincode,'&state\_name','&city\_name');
5. Insert into slot  
values('&slot\_id','&from\_date','&tentative\_years','&judge\_name');
6. Insert into selects values(&client\_id,&advocate\_id);
7. Insert into has values(&advocate\_id,'&advocate\_type\_id');
8. Insert into booking values(&advocate\_id,&pincode);
9. Insert into has\_timings values(&pincode,'&slot\_id');

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

Run SQL Command Line

```
SQL> create table client(client_id number primary key,client_name varchar2(20),client_pass varchar2(20));  
  
Table created.  
  
SQL> create table advocate(advocate_id number primary key,advocate_name varchar2(20),advocate_rating varchar2(20));  
  
Table created.  
  
SQL> create table types(advocate_type varchar2(20),experience number,advocate_type_id varchar2(20) primary key);  
  
Table created.  
  
SQL> create table court(pincode number primary key,state_name varchar2(20),city_name varchar2(20));  
  
Table created.  
  
SQL> create table slot(slot_id number primary key,from_date varchar2(10),tentative_years number,judge_name varchar2(20));  
  
Table created.  
  
SQL> create table selects(client_id number,advocate_id number,foreign key(client_id) references client(client_id),foreign key(advocate_id) references advocate(advocate_id));  
  
Table created.  
  
SQL> create table has(advocate_id number,advocate_type_id varchar2(20),foreign key(advocate_id) references advocate(advocate_id),foreign key(advocate_type_id) references types(advocate_type_id));  
  
Table created.  
  
SQL> create table booking(advocate_id number,pincode number,foreign key(advocate_id)references advocate(advocate_id),foreign key(pincode) references court(pincode));  
  
Table created.  
  
SQL> create table has_timings(pincode number,slot_id number,foreign key(pincode)references court(pincode),foreign key(slot_id) references slot(slot_id));  
  
Table created.
```

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

Run SQL Command Line

```
SQL> desc client;
Name                                     Null?   Type
-----
CLIENT_ID                             NOT NULL NUMBER
CLIENT_NAME                           VARCHAR2(20)
CLIENT_PASS                            VARCHAR2(20)

SQL> desc advocate;
Name                                     Null?   Type
-----
ADVOCATE_ID                             NOT NULL NUMBER
ADVOCATE_NAME                           VARCHAR2(20)
ADVOCATE_RATING                         VARCHAR2(20)

SQL> desc types;
Name                                     Null?   Type
-----
ADVOCATE_TYPE                           VARCHAR2(20)
EXPERIENCE                              NUMBER
ADVOCATE_TYPE_ID                         NOT NULL VARCHAR2(20)

SQL> desc court;
Name                                     Null?   Type
-----
PINCODE                                 NOT NULL NUMBER
STATE_NAME                             VARCHAR2(20)
CITY_NAME                              VARCHAR2(20)

SQL> desc slot;
Name                                     Null?   Type
-----
SLOT_ID                                 NOT NULL NUMBER
FROM_DATE                              VARCHAR2(10)
TENTATIVE_YEARS                         NUMBER
JUDGE_NAME                              VARCHAR2(20)

SQL> desc selects;
Name                                     Null?   Type
-----
CLIENT_ID                              NUMBER
ADVOCATE_ID                             NUMBER

SQL> desc has;
Name                                     Null?   Type
-----
ADVOCATE_ID                             NUMBER
ADVOCATE_TYPE_ID                         VARCHAR2(20)

SQL> desc booking;
Name                                     Null?   Type
-----
ADVOCATE_ID                             NUMBER
PINCODE                                 NUMBER

SQL> desc has_timings;
Name                                     Null?   Type
-----
PINCODE                                 NUMBER
SLOT_ID                                 NUMBER
```

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

Run SQL Command Line

```
SQL> insert into client values(&client_id,&client_name,&client_pass');
Enter value for client_id: 1001
Enter value for client_name: krishna
Enter value for client_pass: krishna
old 1: insert into client values(&client_id,&client_name,&client_pass')
new 1: insert into client values(1001,'krishna','krishna')
```

1 row created.

```
SQL> /
Enter value for client_id: 1002
Enter value for client_name: chaitanya
Enter value for client_pass: chaitanya
old 1: insert into client values(&client_id,&client_name,&client_pass')
new 1: insert into client values(1002,'chaitanya','chaitanya')
```

1 row created.

```
SQL> /
Enter value for client_id: 1003
Enter value for client_name: vamshi
Enter value for client_pass: vamshi
old 1: insert into client values(&client_id,&client_name,&client_pass')
new 1: insert into client values(1003,'vamshi','vamshi')
```

1 row created.

```
SQL> /
Enter value for client_id: 1004
Enter value for client_name: hemanth
Enter value for client_pass: hemanth
old 1: insert into client values(&client_id,&client_name,&client_pass')
new 1: insert into client values(1004,'hemanth','hemanth')
```

1 row created.

```
SQL> select * from client;
```

CLIENT_ID	CLIENT_NAME	CLIENT_PASS
1001	krishna	krishna
1002	chaitanya	chaitanya
1003	vamshi	vamshi
1004	hemanth	hemanth

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

```
Run SQL Command Line

SQL> insert into advocate values(&advocate_id,&advocate_name,&advocate_rating);
Enter value for advocate_id: 8001
Enter value for advocate_name: prudhvi
Enter value for advocate_rating: good
old 1: insert into advocate values(&advocate_id,&advocate_name,&advocate_rating')
new 1: insert into advocate values(8001,'prudhvi','good')

1 row created.

SQL> /
Enter value for advocate_id: 8002
Enter value for advocate_name: shahbaz
Enter value for advocate_rating: average
old 1: insert into advocate values(&advocate_id,&advocate_name,&advocate_rating')
new 1: insert into advocate values(8002,'shahbaz','average')

1 row created.

SQL> /
Enter value for advocate_id: 8003
Enter value for advocate_name: karthik
Enter value for advocate_rating: good
old 1: insert into advocate values(&advocate_id,&advocate_name,&advocate_rating')
new 1: insert into advocate values(8003,'karthik','good')

1 row created.
```

```
Enter value for advocate_id: 8004
Enter value for advocate_name: wajahat
Enter value for advocate_rating: good
old 1: insert into advocate values(&advocate_id,&advocate_name,&advocate_rating')
new 1: insert into advocate values(8004,'wajahat','good')

1 row created.
```

```
SQL> select * from advocate;
```

ADVOCATE_ID	ADVOCATE_NAME	ADVOCATE_RATING
8001	prudhvi	good
8002	shahbaz	average
8003	karthik	good
8004	wajahat	good

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

```
SQL> commit;

Commit complete.

SQL> insert into types values('&advocate_type',&experience,&advocate_type_id');
Enter value for advocate_type: criminal lawyer
Enter value for experience: 4
Enter value for advocate_type_id: HC8001
old 1: insert into types values('&advocate_type',&experience,&advocate_type_id')
new 1: insert into types values('criminal lawyer',4,'HC8001')

1 row created.

SQL> /
Enter value for advocate_type: employment lawyer
Enter value for experience: 8
Enter value for advocate_type_id: HC8002
old 1: insert into types values('&advocate_type',&experience,&advocate_type_id')
new 1: insert into types values('employment lawyer',8,'HC8002')

1 row created.

SQL> /
Enter value for advocate_type: corporate lawyer
Enter value for experience: 2
Enter value for advocate_type_id: LC8003
old 1: insert into types values('&advocate_type',&experience,&advocate_type_id')
new 1: insert into types values('corporate lawyer',2,'LC8003')

1 row created.

SQL> /
Enter value for advocate_type: immigration lawyer
Enter value for experience: 10
Enter value for advocate_type_id: SC8004
old 1: insert into types values('&advocate_type',&experience,&advocate_type_id')
new 1: insert into types values('immigration lawyer',10,'SC8004')

1 row created.

SQL> select * from types;

ADVOCATE_TYPE      EXPERIENCE ADVOCATE_TYPE_ID
-----
criminal lawyer      4 HC8001
employment lawyer    8 HC8002
corporate lawyer     2 LC8003
immigration lawyer   10 SC8004
```

**DBMS ASSIGNMENT**  
**Title: COURT MANAGEMENT SYSTEM**

```
Run SQL Command Line

SQL> commit;

Commit complete.

SQL> insert into court values(&pincode,&state_name,&city_name);
Enter value for pincode: 110001
Enter value for state_name: delhi
Enter value for city_name: tilak marg
old 1: insert into court values(&pincode,&state_name,&city_name')
new 1: insert into court values(110001,'delhi','tilak marg')

1 row created.

SQL> /
Enter value for pincode: 500066
Enter value for state_name: telangana
Enter value for city_name: hyderabad
old 1: insert into court values(&pincode,&state_name,&city_name')
new 1: insert into court values(500066,'telangana','hyderabad')

1 row created.

SQL> /
Enter value for pincode: 522237
Enter value for state_name: andhra pradesh
Enter value for city_name: amaravati
old 1: insert into court values(&pincode,&state_name,&city_name')
new 1: insert into court values(522237,'andhra pradesh','amaravati')

1 row created.

SQL> /
Enter value for pincode: 500074
Enter value for state_name: telangana
Enter value for city_name: bahadurguda
old 1: insert into court values(&pincode,&state_name,&city_name')
new 1: insert into court values(500074,'telangana','bahadurguda')

1 row created.

SQL> select * from court;
```

PINCODE	STATE_NAME	CITY_NAME
110001	delhi	tilak marg
500066	telangana	hyderabad
522237	andhra pradesh	amaravati
500074	telangana	bahadurguda

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

#### Run SQL Command Line

```
SQL> insert into slot values('&slot_id','&from_date','&tentative_years','&judge_name');
Enter value for slot_id: SM101
Enter value for from_date: 12-06-2021
Enter value for tentative_years: 1
Enter value for judge_name: harsha
old 1: insert into slot values('&slot_id','&from_date','&tentative_years','&judge_name')
new 1: insert into slot values('SM101','12-06-2021','1','harsha')
```

1 row created.

```
SQL> /
Enter value for slot_id: SA102
Enter value for from_date: 22-07-2021
Enter value for tentative_years: 1
Enter value for judge_name: sandeep
old 1: insert into slot values('&slot_id','&from_date','&tentative_years','&judge_name')
new 1: insert into slot values('SA102','22-07-2021','1','sandeep')
```

1 row created.

```
SQL> /
Enter value for slot_id: SE103
Enter value for from_date: 18-07-2021
Enter value for tentative_years: 2
Enter value for judge_name: harsha
old 1: insert into slot values('&slot_id','&from_date','&tentative_years','&judge_name')
new 1: insert into slot values('SE103','18-07-2021','2','harsha')
```

1 row created.

```
SQL> /
Enter value for slot_id: SM104
Enter value for from_date: 16-06-2021
Enter value for tentative_years: 2
Enter value for judge_name: vijay
old 1: insert into slot values('&slot_id','&from_date','&tentative_years','&judge_name')
new 1: insert into slot values('SM104','16-06-2021','2','vijay')
```

1 row created.

```
SQL> select * from slot;
```

SLOT_ID	FROM_DATE	TENTATIVE_YEARS	JUDGE_NAME
SM101	12-06-2021	1	harsha
SA102	22-07-2021	1	sandeep
SE103	18-07-2021	2	harsha
SM104	16-06-2021	2	vijay



## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

Run SQL Command Line

```
SQL> commit;
```

```
Commit complete.
```

```
SQL> insert into selects values(&client_id,&advocate_id);
```

```
Enter value for client_id: 1001
```

```
Enter value for advocate_id: 8004
```

```
old 1: insert into selects values(&client_id,&advocate_id)
```

```
new 1: insert into selects values(1001,8004)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for client_id: 1002
```

```
Enter value for advocate_id: 8003
```

```
old 1: insert into selects values(&client_id,&advocate_id)
```

```
new 1: insert into selects values(1002,8003)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for client_id: 1003
```

```
Enter value for advocate_id: 8002
```

```
old 1: insert into selects values(&client_id,&advocate_id)
```

```
new 1: insert into selects values(1003,8002)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for client_id: 1004
```

```
Enter value for advocate_id: 8001
```

```
old 1: insert into selects values(&client_id,&advocate_id)
```

```
new 1: insert into selects values(1004,8001)
```

```
1 row created.
```

```
SQL> select * from selects;
```

CLIENT_ID	ADVOCATE_ID
1001	8004
1002	8003
1003	8002
1004	8001

**DBMS ASSIGNMENT**  
**Title: COURT MANAGEMENT SYSTEM**

```
SQL> commit;

Commit complete.

SQL> insert into has values(&advocate_id,&advocate_type_id);
Enter value for advocate_id: 8001
Enter value for advocate_type_id: HC8001
old 1: insert into has values(&advocate_id,&advocate_type_id)
new 1: insert into has values(8001,'HC8001')

1 row created.

SQL> /
Enter value for advocate_id: 8002
Enter value for advocate_type_id: HC8002
old 1: insert into has values(&advocate_id,&advocate_type_id)
new 1: insert into has values(8002,'HC8002')

1 row created.

SQL> /
Enter value for advocate_id: 8003
Enter value for advocate_type_id: LC8003
old 1: insert into has values(&advocate_id,&advocate_type_id)
new 1: insert into has values(8003,'LC8003')

1 row created.

SQL> /
Enter value for advocate_id: 8004
Enter value for advocate_type_id: SC8004
old 1: insert into has values(&advocate_id,&advocate_type_id)
new 1: insert into has values(8004,'SC8004')

1 row created.

SQL> select * from has;

ADVOCATE_ID ADVOCATE_TYPE_ID
-----
      8001 HC8001
      8002 HC8002
      8003 LC8003
      8004 SC8004
```

## DBMS ASSIGNMENT

### Title: COURT MANAGEMENT SYSTEM

```
SQL> Select Run SQL Command Line

SQL> insert into booking values(&advocate_id,&pincode);
Enter value for advocate_id: 8001
Enter value for pincode: 500066
old 1: insert into booking values(&advocate_id,&pincode)
new 1: insert into booking values(8001,500066)

1 row created.

SQL> /
Enter value for advocate_id: 8002
Enter value for pincode: 522237
old 1: insert into booking values(&advocate_id,&pincode)
new 1: insert into booking values(8002,522237)

1 row created.

SQL> /
Enter value for advocate_id: 8003
Enter value for pincode: 500074
old 1: insert into booking values(&advocate_id,&pincode)
new 1: insert into booking values(8003,500074)

1 row created.

SQL> /
Enter value for advocate_id: 8004
Enter value for pincode: 110001
old 1: insert into booking values(&advocate_id,&pincode)
new 1: insert into booking values(8004,110001)

1 row created.

SQL> select * from booking;

ADVOCATE_ID    PINCODE
-----
      8001      500066
      8002      522237
      8003      500074
      8004      110001
```

## DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

```
SQL> insert into has_timings values(&pincode,&slot_id');
Enter value for pincode: 500066
Enter value for slot_id: SM101
old 1: insert into has_timings values(&pincode,&slot_id')
new 1: insert into has_timings values(500066,'SM101')

1 row created.

SQL> /
Enter value for pincode: 522237
Enter value for slot_id: SA102
old 1: insert into has_timings values(&pincode,&slot_id')
new 1: insert into has_timings values(522237,'SA102')

1 row created.

SQL> /
Enter value for pincode: 500074
Enter value for slot_id: SE103
old 1: insert into has_timings values(&pincode,&slot_id')
new 1: insert into has_timings values(500074,'SE103')

1 row created.

SQL> /
Enter value for pincode: 110001
Enter value for slot_id: SM104
old 1: insert into has_timings values(&pincode,&slot_id')
new 1: insert into has_timings values(110001,'SM104')

1 row created.

SQL> select * from has_timings;

  PINCODE SLOT_ID
-----
  500066 SM101
  522237 SA102
  500074 SE103
  110001 SM104
```