# ASSIGNMENT-1 AUTOMATED POLLING

# **CONTENT:**

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- ➤ ER Diagram
- ➤ Logical database design DDL commands
- > Enforcing primary and foreign keys.
- > DML operation and outputs.

Name : V.Sreya

#### **ABSTRACT:**

An automated polling system helps in registering and certifying voters and collecting their votes. This is a computer based vote casting system that has access to the database which checks if the voter is eligible to vote or not. The database includes 5 tables for storing the information related to the system. The five table are:

- Voters details
- > Nominees details
- > Admin
- Parties that are taking part.
- > City

The entity 'voter' is related to the entity 'city' through the relationship 'from' and to entity 'nominee' through 'castes\_vote'. The entity 'admin' is associated to the entity 'voter' through the relationship ',anage' whereas the entity 'nominee' is related to entity 'party' through the relation 'belongs\_to'. The common attributes include ID and name where Id acts as the primary key for that table and as a foreign key to some other table. Domain types used are varchar2, number and date.

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# **LIST OF REQUIREMENTS:**

List of parties taking part in the polling.

Details of the nominees and voters.

Details of parties.

Cities and constituencies involved.

The database requires 5 table for implementation of the polling system.

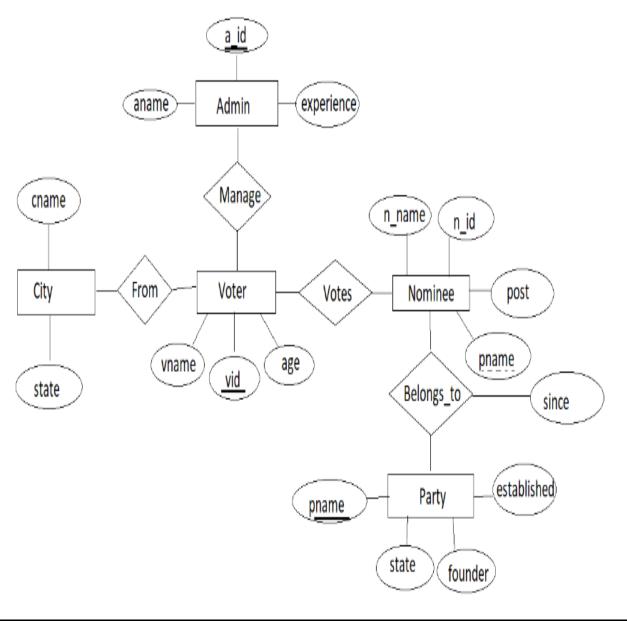
The five table and their attributes are:

- Voter
  - Voter id : vid- number(5)
  - Voter name : vname- varchar2(20)
  - ❖ Age: number(5)
- Nominee
  - Nominee name: n name-varchar2(20)
  - Nominee id : n\_id- number(5)
  - Post : varchar2(20)
  - Party name : p name- varchar2(20)
- Admin
  - Admin id : a id- number(5)
  - Admin name : a name- varchar2(20)
  - Experience : number(5)
- Party
  - Party name : p name- varchar2(20)
  - State: varchar2(20)
  - Founder: varchar2(20)
  - Established : number(5)
- > City
  - City name : cname- varchar2(20)
  - City state : cstate- varchar2(20)
- Belongs\_to
  - Since :number(5)

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The descriptive attribute 'since' in the table 'belongs\_to' tell about since when the nominee belongs to the party

# **ER Diagram:**



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## **CONSTRAINTS APPLIED:**

The database has two constraints that are applied- The primary key constraint and foreign key constraint. The primary keys are:

- > a\_id in the admin table.
- vid in the voter table.
- > pname in the party table.

The attribute pname acts as foreign in the nominee table.

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## **DDL Commands:**

## For creating party table:

```
Query: create table party(pname varchar2(20) primary key, state varchar2(20), founder varchar(20), established number(5));
```

## For creating nominee table:

```
Query: create table party(n_name varchar2(20), n_id number(5), post varchar(20), pname varchar2(20));
```

## For creating voter table:

## For creating admin table:

# For creating city table:

## For creating belongs\_to table:

Query: create table belongs\_to(since number(5));

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```
SQL> create table party(pname varchar2(20) primary key,
2 state varchar2(20),
3 founder varchar2(20),
4 established number(5));

Table created.

SQL> create table nominee(n_name varchar2(20),
2 n_id number(5),
3 post varchar2(20),
4 pname varchar2(20));

Table created.

SQL> alter table nominee add foreign key(pname) references party;

Table altered.
```

```
SQL> create table voter(vid number(5),
2 vname varchar2(20),
3 age number(5));

Table created.

SQL> alter table voter add primary key(vid);

Table altered.

SQL> create table admin(a_id number(5) primary key,
2 aname varchar2(20),
3 experience number(5));

Table created.
```

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SQL> alter table city add(cstate varchar2(20));					
Table altered.					
SQL> desc city; Name	Null?	Туре			
CNAME CSTATE		VARCHAR2(20) VARCHAR2(20)			
SQL> desc party; Name	Null?	Туре			
PNAME STATE FOUNDER ESTABLISHED	NOT NULL	VARCHAR2(20) VARCHAR2(20) VARCHAR2(20) NUMBER(5)			
SQL> desc nominee; Name	Null?	Туре			
N_NAME N_ID POST PNAME		VARCHAR2(20) NUMBER(5) VARCHAR2(20) VARCHAR2(20)			
SQL> desc admin; Name	Null?	Туре			
A_ID ANAME EXPERIENCE	NOT NULL	NUMBER(5) VARCHAR2(20) NUMBER(5)			
SQL> desc desc voter; Usage: DESCRIBE [schema.]object[@db_link]					
SQL> desc voter; Name	Null?	Туре			
VID VNAME AGE	NOT NULL	NUMBER(5) VARCHAR2(20) NUMBER(5)			

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#### **DML Commands:**

```
SQL> insert into nominee values('&n_name',&n_id,'&post','&pname');
Enter value for n_name: Amit shah
Enter value for n_id: 1001
Enter value for post: president
Enter value for pname: BJP
old 1: insert into nominee values('&n_name',&n_id,'&post','&pname')
new 1: insert into nominee values('Amit shah',1001,'president','BJP')

1 row created.

SQL> /
Enter value for n_name: Uddhav Thackeray
Enter value for n_id: 1002
Enter value for post: Chair person
Enter value for pname: Shiv Sena
old 1: insert into nominee values('&n_name',&n_id,'&post','&pname')
new 1: insert into nominee values('Uddhav Thackeray',1002,'Chair person','Shiv Sena')

1 row created.
```

```
Enter value for n_name: Sonia Gandhi
Enter value for n_id: President
Enter value for post: 1001
Enter value for pname: kd
old 1: insert into nominee values('&n_name',&n_id,'&post','&pname')
new 1: insert into nominee values('Sonia Gandhi',President,'1001','kd')
insert into nominee values('Sonia Gandhi',President,'1001','kd')
ERROR at line 1:
ORA-00984: column not allowed here
SQL> /
Enter value for n_name: Sonia Gandhi
Enter value for n_id: 1003
Enter value for post: President
Enter value for pname: Congress
old 1: insert into nominee values('&n_name',&n_id,'&post','&pname')
new 1: insert into nominee values('Sonia Gandhi',1003,'President','Congress')
1 row created.
Enter value for n_name: Chandra Babu Naidu
Enter value for n_id: 1004
Enter value for post: president
Enter value for pname: TDP
old 1: insert into nominee values('&n_name',&n_id,'&post','&pname')
new 1: insert into nominee values('Chandra Babu Naidu',1004,'president','TDP')
1 row created.
```

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```
SQL> insert into nominee values('&n_name',&n_id,'&post','&pname');
Enter value for n_name: Supriya Sule
Enter value for n_id: 1005
Enter value for post: LokSabha leader
Enter value for pname: Rashtrawadi congress
old 1: insert into nominee values('&n_name',&n_id,'&post','&pname')
new 1: insert into nominee values('Supriya Sule',1005,'LokSabha leader','Rashtrawadi congress')
1 row created.
```

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SQL> select * from party;						
PNAME	STATE	TATE FOUNDER		ESTABLISHED		
Shiv Sena Congress	all Andhra Pradesh	Dadabhai Naoroji ra Pradesh NT Rama Rao		1980 1966 1885 1982 1999		
SQL> select * from nominee;						
N_NAME	N_ID POST		PNAME			
Uddhav Thackeray Sonia Gandhi Chandra Babu Naidu	1004 preside 1005 LokSabh	erson nt nt	TDP			
VID VNAME		AGE				
VID VINAME		AGE 				
2001 Ayesha 2002 Rivaah 2003 Mayank 2004 Vivaan 2005 Manik		21 27 19 18 19				
SQL> select * from admin;						
A_ID ANAME	EXPERIE	NCE				
3001 Parth 3002 Abhishek 3003 Moksh 3004 Ansh 3005 Aniketh		6 2 5 5 10				
SQL> select * from city;						
CNAME Pune Hyderabad Kinwat chandigarh Bengaluru	CSTATE Maharashtra Telangana Maharashtra Punjab Karnataka					

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```
SQL> desc belongs to;
                                          Null?
Name
                                                  Type
SINCE
                                                   NUMBER(5)
SQL> insert into belongs_to values(&since);
Enter value for since: 1990
old 1: insert into belongs to values(&since)
new 1: insert into belongs_to values(1990)
1 row created.
SQL> /
Enter value for since: 1966
old 1: insert into belongs to values(&since)
new 1: insert into belongs_to values(1966)
1 row created.
SQL> /
Enter value for since: 1885
old 1: insert into belongs_to values(&since)
new 1: insert into belongs_to values(1885)
1 row created.
SQL> /
Enter value for since: 1982
old 1: insert into belongs to values(&since)
new 1: insert into belongs_to values(1982)
1 row created.
SQL> /
Enter value for since: 1999
old 1: insert into belongs_to values(&since)
new 1: insert into belongs_to values(1999)
1 row created.
```

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