

Online Voting System

CASE:Student Union Election



Presented by:

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Q Today's Agenda

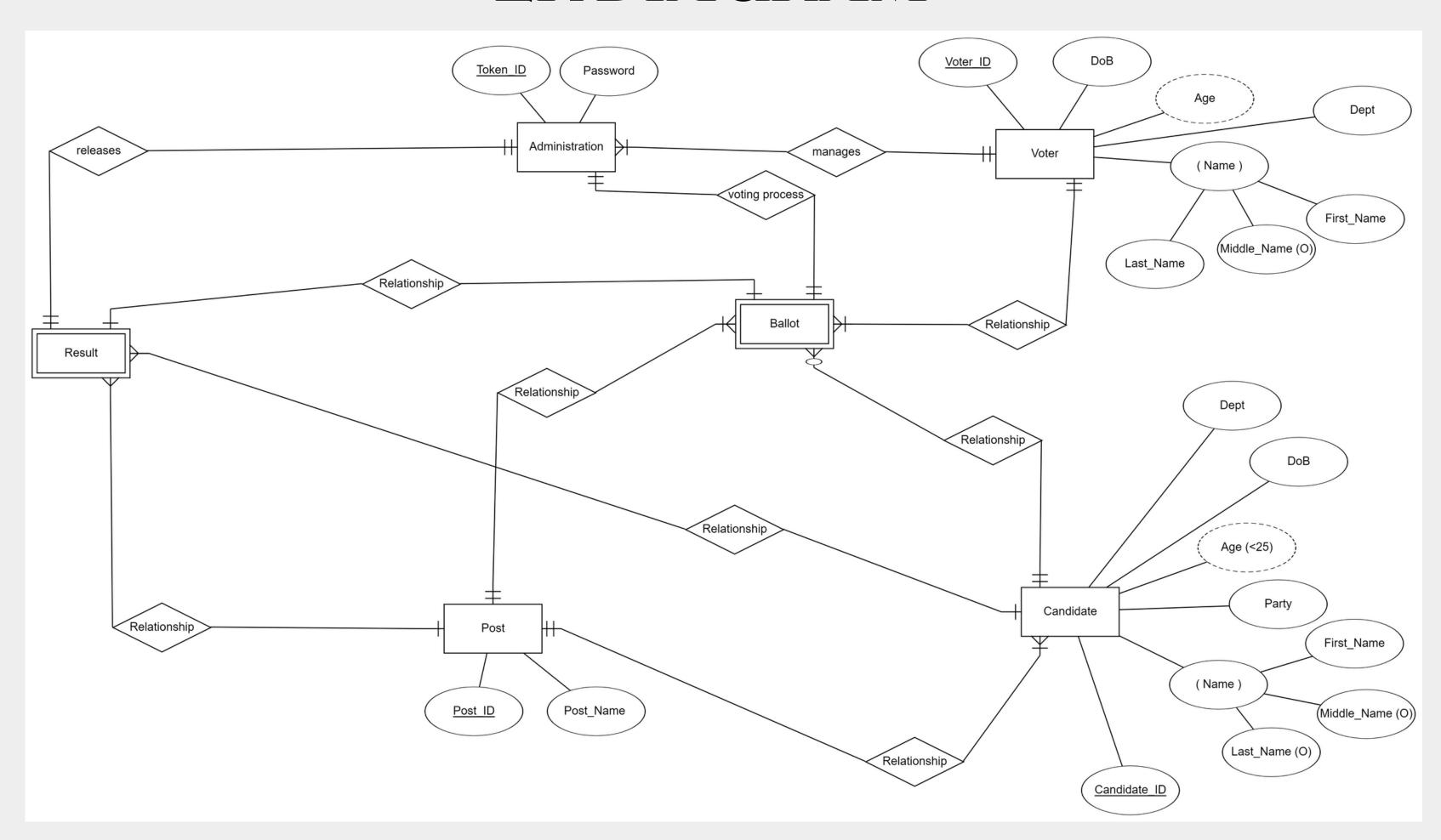
- 1 TABLES AND ATTRIBUTES
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- 4 SQL QUERY
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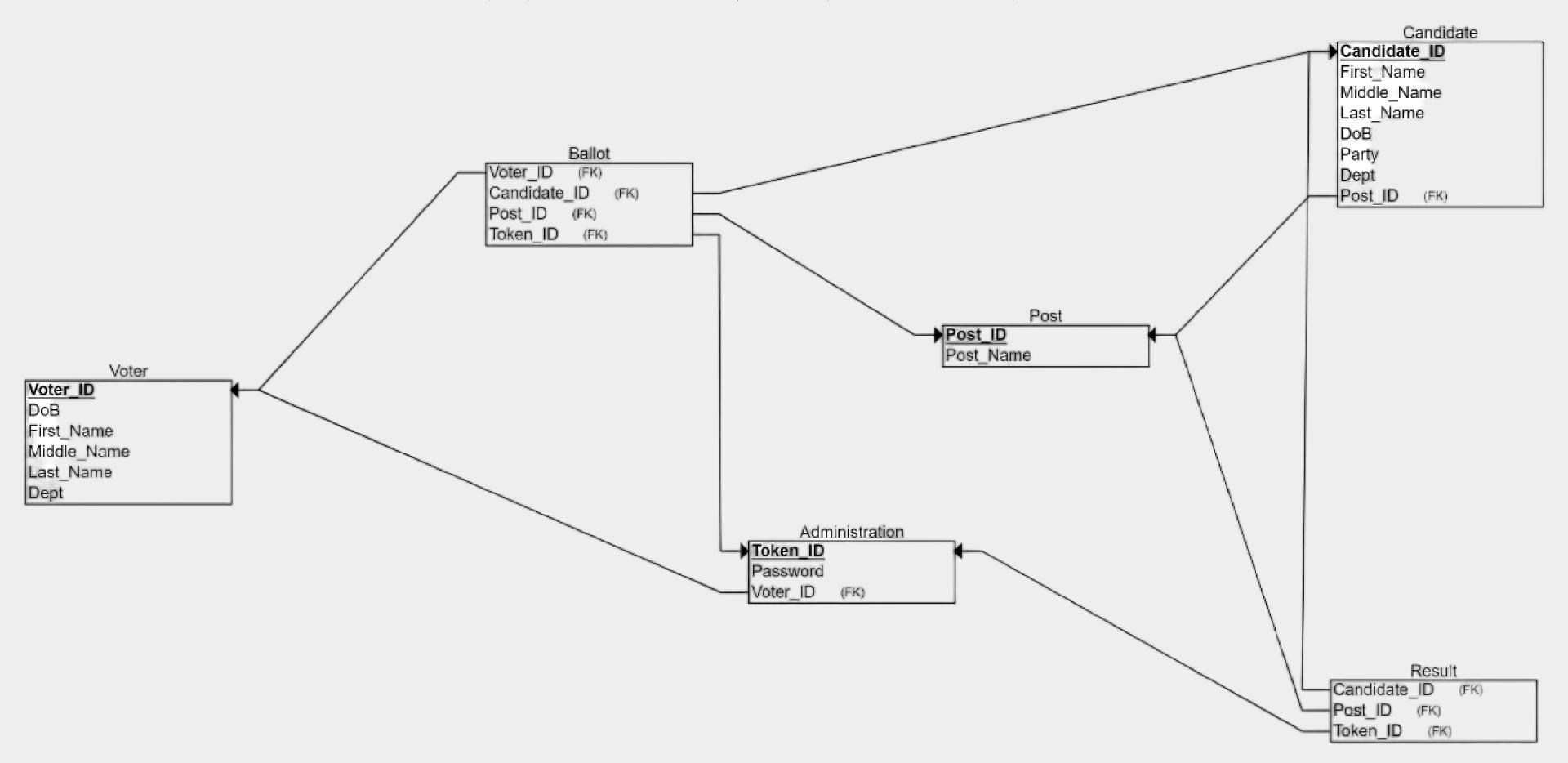
TABLES AND ATTRIBUTES

Table name	Attributes			
Voter	Voter ID, Name, Date of Birth, Deptartment			
Candidate	Candidate ID, Post ID, Name, Date of Birth, Party, Department			
Post	Post ID , Post Name			
Administration	Token ID , <i>Voter ID</i> , Password			
Ballot	Voter ID, Token ID, Candidate ID, Post ID			
Result	Token ID, Candidate ID, Post ID			

ERDIAGRAM



RELATIONAL SCHEMA



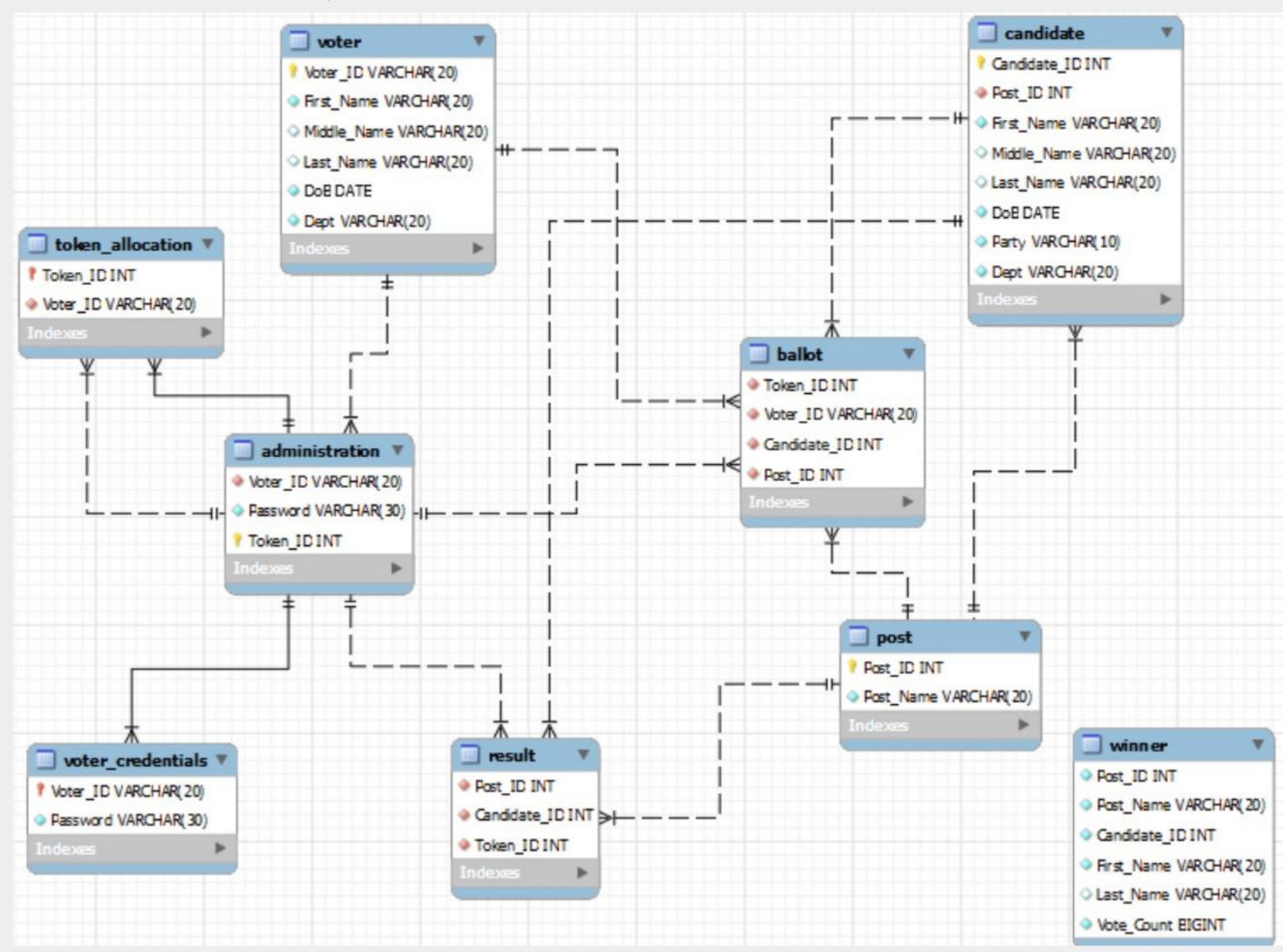
SQL QUERY

```
1 •
       CREATE DATABASE VOTING_SYSTEM;
 2 •
       USE VOTING_SYSTEM;
 3
 4 •
       CREATE TABLE Voter
    \ominus
 5
 6
         Voter_ID VARCHAR(20) NOT NULL,
         First_Name VARCHAR(20) NOT NULL,
         Middle Name VARCHAR(20),
 8
 9
         Last_Name VARCHAR(20),
10
         DOB DATE NOT NULL,
11
         Dept VARCHAR(20) NOT NULL,
12
         PRIMARY KEY (Voter_ID)
13
14
15 •
       CREATE TABLE Post
16
17
         Post ID INT NOT NULL,
18
         Post_Name VARCHAR(20) NOT NULL,
         PRIMARY KEY (Post_ID)
19
20
```

```
CREATE TABLE Candidate
    ⊖ (
32
         Candidate ID INT NOT NULL auto increment,
33
         Post ID INT NOT NULL,
34
35
         First Name VARCHAR(20) NOT NULL,
36
         Middle_Name VARCHAR(20),
37
         Last Name VARCHAR(20),
         DOB DATE NOT NULL,
38
39
         Party VARCHAR(10) NOT NULL,
40
         Dept VARCHAR(20) NOT NULL,
41
         PRIMARY KEY (Candidate_ID),
         FOREIGN KEY (Post_ID) REFERENCES Post(Post_ID)
42
43
       );
44
45 •
       CREATE TABLE Ballot
46
    ⊖ (
47
         Token ID INT NOT NULL,
         Voter_ID VARCHAR(20) NOT NULL,
48
49
         Candidate ID INT NOT NULL,
         Post_ID INT NOT NULL,
50
51
         FOREIGN KEY (Voter_ID) REFERENCES Voter(Voter_ID),
         FOREIGN KEY (Candidate ID) REFERENCES Candidate(Candidate ID)
52
53
         FOREIGN KEY (Post_ID) REFERENCES Post(Post_ID),
54
         FOREIGN KEY (Token ID) REFERENCES Administration(Token ID)
55
```

Let's Reverse!

REVERSE ENGINEERING



WINNER

	Post_ID	Post_Name	Candidate_ID	First_Name	Last_Name	Vote_Cour
	101	President	1	Aarav	Patel	5
	102	Vice President	6	Aaradhya	Singh	3
	102	Vice President	7	Advait	Kumar	3
	103	Cultural Sec.	13	Kabir	Shah	4
	104	Sports Sec.	19	Saavi	Patel	5
	105	Literary Sec.	25	Soham	Patel	4

Thank you for joining!

Have a great weekend!