**THIS MANAGEMENT ONLY CALCULATE WHI WON IN DIST LEVEL:**

----------------------------------------------------

create database votermanagement;

use votermanagement;

create table candidate(

id int primary key auto\_increment,

party\_id int not null,

candidate\_id int not null,

constraint candidatePartyId foreign key(party\_id) references parties(id),

constraint candidateId foreign key(candidate\_id) references voters(id)

);

alter table candidate add constraint uniquecandidateid unique(candidate\_id);

create table district(

id int primary key auto\_increment,

name varchar(50) not null unique

);

create table town(

id int auto\_increment primary key,

name varchar(50) not null unique,

dist\_id int,

CONSTRAINT distId foreign key(dist\_id) references district(id)

);

CREATE TABLE voters (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(50) NOT NULL unique,

town\_id INT,

CONSTRAINT townId FOREIGN KEY(town\_id) REFERENCES town(id)

);

create table parties(

id int primary key auto\_increment,

name varchar(20) not null unique,

);

CREATE TABLE voterpoll (

id INT PRIMARY KEY AUTO\_INCREMENT,

voter\_id INT NOT NULL,

candidate\_id INT NOT NULL,

CONSTRAINT voterpoll\_voterId FOREIGN KEY (voter\_id)

REFERENCES voters (id),

CONSTRAINT voterpoll\_candidateId FOREIGN KEY (candidate\_id)

REFERENCES candidate(candidate\_id)

)

alter table voterpoll add constraint voterpollvoter\_id\_unique unique(voter\_id);

SELECT

t.name AS Town\_name,

v.name,

p.name AS Party\_name,

COUNT(\*) AS vote\_Count

FROM

voterpoll vp

INNER JOIN

voters v ON vp.candidate\_id = v.id

INNER JOIN

candidate c ON vp.candidate\_id = c.candidate\_id

INNER JOIN

parties p ON c.party\_id = p.id

INNER JOIN

town t ON v.town\_id = t.id

GROUP BY vp.candidate\_id

ORDER BY Town\_name , vote\_Count DESC;

-----------------------------------------------------------------------------------------------------

SELECT

d.name District\_Name, t.name Town\_Name, p.name Party\_Name, COUNT(c.party\_id) AS Vote\_Count

FROM

candidate c

LEFT JOIN

voterpoll vp ON c.candidate\_id = vp.candidate\_id

LEFT JOIN

parties p ON c.party\_id = p.id

LEFT JOIN

voters v ON vp.voter\_id = v.id

LEFT JOIN

town t ON v.town\_id = t.id

INNER JOIN

district d ON t.dist\_id = d.id

GROUP BY c.party\_id , t.name

ORDER BY t.name , Vote\_Count DESC;

------------------------------------------------------------------------------------

SELECT

t1.Town\_name,

t1.Party\_name,

t1.name AS Candidate\_Name,

t1.vote\_Count,

((vote\_Count / Total\_Vote\_Counts) \* 100) AS 'Per\_(%)'

FROM

(SELECT

p.name AS Party\_name,

t.name AS Town\_name,

v.name,

COUNT(\*) AS vote\_Count

FROM

voterpoll vp

INNER JOIN voters v ON vp.candidate\_id = v.id

INNER JOIN candidate c ON vp.candidate\_id = c.candidate\_id

INNER JOIN parties p ON c.party\_id = p.id

INNER JOIN town t ON v.town\_id = t.id

GROUP BY vp.candidate\_id) t1

CROSS JOIN

(SELECT

COUNT(\*) AS Total\_Vote\_Counts

FROM

voterpoll) t2

ORDER BY Town\_name , vote\_Count DESC;

----------------------------------------------------------------------------------



