**RDBMS PROJECT:**

CREATE TABLE Voters (

voter\_id varchar(255) NOT NULL,

email\_id varchar(255),

name varchar(255),

gender varchar(255),

age int NOT NULL,

aadhar\_number int NOT NULL,

city varchar(255),

PRIMARY KEY (voter\_id)

);

CREATE TABLE candidate (

gender varchar(255) NOT NULL,

field\_name varchar(255),

name varchar(255),

age int NOT NULL,

aadhar\_number int NOT NULL,

symbol varchar(255),

city varchar(255),

email varchar(255),

PRIMARY KEY (aadhar\_number)

);

CREATE TABLE admin (

login\_id varchar(255) NOT NULL,

password varchar(255),

PRIMARY KEY (login\_id)

);

CREATE TABLE result (

candidate\_name varchar(255) NOT NULL,

symbol varchar(255),

PRIMARY KEY (candidate\_name)

);

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

INSERT INTO voters (voter\_id, email\_id, name, gender, age,aadhar\_number, city)

VALUES ('v101','a@abc.com','sejal','female','20','1234','jalgaon');

INSERT INTO voters (voter\_id, email\_id, name, gender, age,aadhar\_number, city)

VALUES ('v102','b@abc.com','adamya','male','21','1256','jaipur');

INSERT INTO voters (voter\_id, email\_id, name, gender, age,aadhar\_number, city)

VALUES ('v103','c@abc.com','ruttvik','male','90','1589','dehradun');

INSERT INTO voters (voter\_id, email\_id, name, gender, age,aadhar\_number, city)

VALUES ('v104','d@abc.com','varnika','female','45','1379','mumbai');

INSERT INTO voters (voter\_id, email\_id, name, gender, age,aadhar\_number, city)

VALUES ('v105','e@abc.com','atharva','male','55','1309','jalgaon');

INSERT INTO candidate (gender, name, age, aadhar\_number, symbol, city, email\_id)

VALUES ('male','varun','36','1052','hand','jaipur','e@abc.com');

INSERT INTO candidate (gender, name, age, aadhar\_number, symbol, city, email\_id)

VALUES ('female','garima','26','1946','lotus','jaipur','f@abc.com');

INSERT INTO candidate (gender, name, age, aadhar\_number, symbol, city, email\_id)

VALUES ('male','purvansh','100','1610','redtape','jaipur','g@abc.com');

INSERT INTO candidate (gender, name, age, aadhar\_number, symbol, city, email\_id)

VALUES ('female','aashima','40','1487','paisa','jaipur','h@abc.com');

INSERT INTO admin (login\_id, password)

VALUES ('jitendra','muj1234');

INSERT INTO admin (login\_id, password)

VALUES ('RAJ','muj123');

ALTER TABLE candidate

RENAME COLUMN email TO email\_id;

ALTER TABLE candidate DROP column field\_name;

**QUERIES :**

1} select \* from voters order by voter\_id asc;

A screenshot of a computer

Description automatically generated

2} select \* from voters;A screenshot of a computer

Description automatically generated

3} select \* from candidate;

A screenshot of a computer

Description automatically generated

4} select \* from admin;

A screenshot of a computer

Description automatically generated

5} CREATE TRIGGER Check\_age BEFORE INSERT ON voters

FOR EACH ROW

BEGIN

IF NEW.age < 18 THEN

SET MESSAGE\_TEXT = 'ERROR:

AGE MUST BE ATLEAST 18 YEARS OR ABOVE!';

END IF;

END;

Graphical user interface, text, application

Description automatically generated

6} CREATE TRIGGER Check\_cand\_age

BEFORE INSERT ON candidate

FOR EACH ROW

BEGIN

IF NEW.age < 18 THEN

SET MESSAGE\_TEXT = 'ERROR:

AGE MUST BE ATLEAST 18 YEARS OR ABOVE!';

END IF;

END;

Graphical user interface, text, application

Description automatically generated

7}  **create an after insert trigger for that :**

create trigger total\_votes\_count

after insert on voters

for each row

begin

if (new.value == 1) then

update posts set total\_votes = total\_votes+1

where id = new.id\_post;

end if;

end;//

Graphical user interface, text, application

Description automatically generated

8}**For handling the update all remains same, only you need another trigger something as:**

create trigger total\_votes\_count\_upd after update on voters

for each row

begin

if (new.value == 1) then

update posts set total\_votes = total\_votes+1

where id = new.id\_post;

elseif (new.value == -1) then

update posts set total\_votes = total\_votes-1

where id = new.id\_post;

end if;

end;//

Graphical user interface, text, application

Description automatically generated

9} CREATE TRIGGER Count\_tupples

AFTER INSERT ON employee

FOR EACH ROW

BEGIN

SET count = count + 1;

END;

Graphical user interface, text, application

Description automatically generated

10} SELECT MAX(count(\*))

FROM candidate GROUP BY name;

A screenshot of a computer

Description automatically generated