DBMS

Voting Management System

Group: 22   **Section: C**

Members

AVNEESH KUMAR   (IIB2019010)

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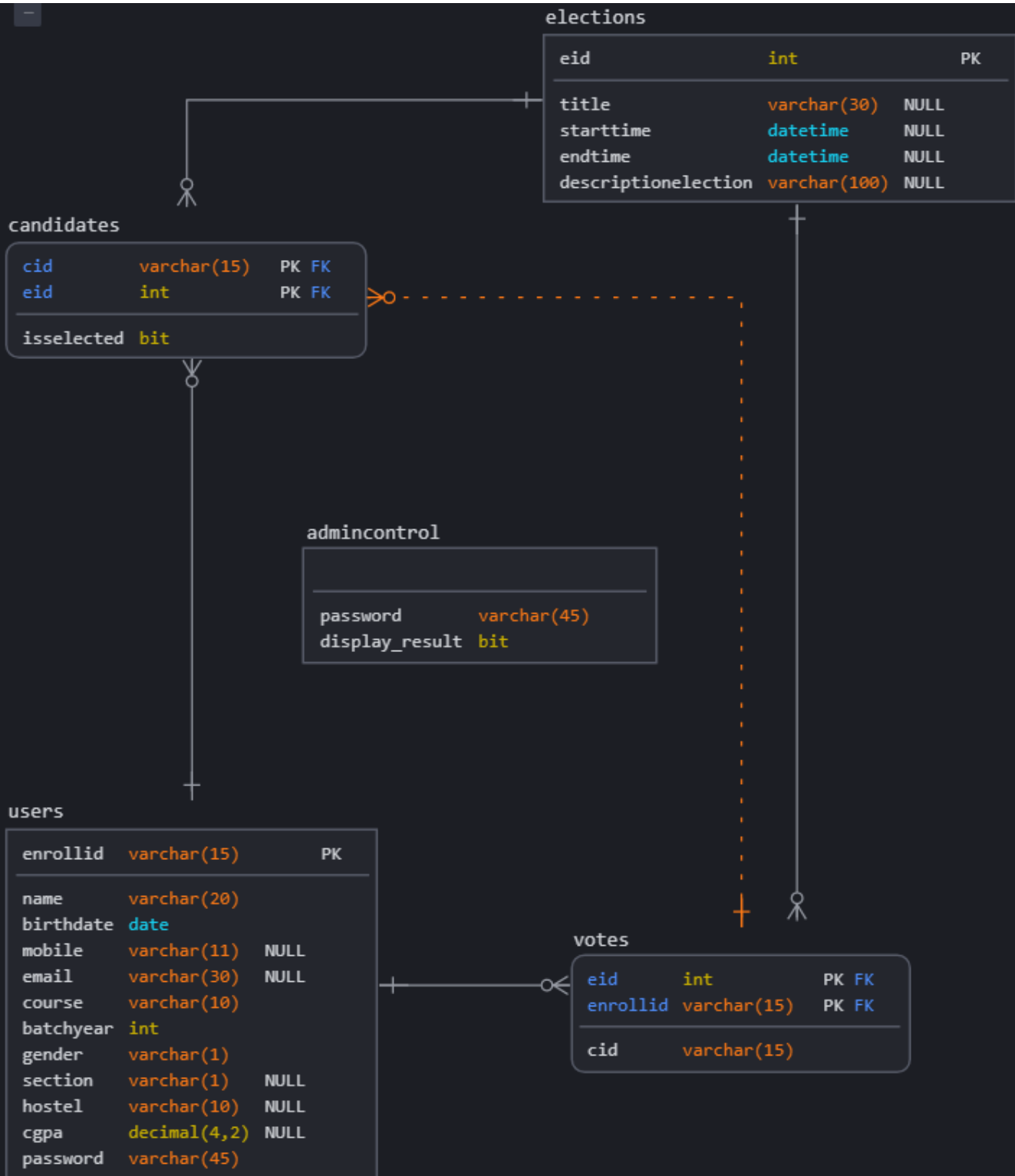VASU GUPTA   (IIB2019003)

ASHISH TYAGI   (IIB2019016)

Table Name	users	
Attributes	enrollid, name, birthdate, mobile, email, course, batchyear, gender, cgpa, password	
Keys	enrollid	Primary Key
Functional Dependencies	{enrollid} -> {name, birthdate, mobile, email, course, batchyear, gender, cgpa, password}	
Remarks	☑ Table is in BCNF.	

Table Name	candidates	
Attributes	eid, cid, isselected	
Keys	eid	Foreign Key
	cid	Foreign Key
Functional Dependencies	{eid, cid} -> {isselected}	
Remarks	☑ Table is in BCNF.	

Table Name	elections	
Attributes	eid, title, starttime, endtime, descriptionelection	
Keys	eid	Primary Key
Functional Dependencies	{eid} -> {title, starttime, endtime, descriptionelection}	
Remarks	✔ Table is in BCNF.	

Table Name	votes	
Attributes	eid, enrollid, cid	
Keys	eid	Foreign Key
	enrollid	Foreign Key
Functional Dependencies	{eid, enrollid} -> {cid}	
Remarks	✔ Table is in BCNF.	

Table Name	admincontrol
Attributes	password, display_result
Keys	N/A
Functional Dependencies	N/A
Remarks	This is a special table. It will only be containing 1 row. This will be used to • store password for admin user, • on/off the display of live results by admin, This is specially designed to store and hold a few specific attributes used by admin users.

elections

eid	int		PK
title	varchar(30)	NULL	
starttime	datetime	NULL	
endtime	datetime	NULL	
descriptionelection	varchar(100)	NULL	

candidates

cid	varchar(15)	PK FK
eid	int	PK FK
isselected	bit	

admincontrol

password	varchar(45)	
display_result	bit	

users

enrollid	varchar(15)		PK
name	varchar(20)		
birthdate	date		
mobile	varchar(11)	NULL	
email	varchar(30)	NULL	
course	varchar(10)		
batchyear	int		
gender	varchar(1)		
section	varchar(1)	NULL	
hostel	varchar(10)	NULL	
cgpa	decimal(4,2)	NULL	
password	varchar(45)		

votes

eid	int	PK FK
enrollid	varchar(15)	PK FK
cid	varchar(15)	

cid is an alias given to enrollid for users applying as a candidate

ER Diagram | Voting Management System