

Name: _____

QUIZ 28 - ICS 321 Fall 2017

Today we discussed a final database design for the toastmaster's project. The database application creates Toastmaster meeting agendas. The agendas are for meeting dates and contain toastmaster duty assignments and other meeting attributes, such as meeting theme and speech titles.

The agenda redesign can be broken down to the following BCNF relations: Meeting_Dates {DATE}, Meeting_Duties {DUTY}, Meeting_Attributes {ATTRIBUTE}, and a Roster of Toastmasters {TID,...}.

An Agenda_Duties relation would contain a tuple for each meeting date, duty and assigned toastmaster. A toastmaster can only be assigned at most one duty per meeting. A second relation Agenda_Attributes would contain a text field for each meeting date and meeting attribute.

Note that the Meeting_Duties and Meeting_Attributes can have an ORDER field to define an agenda ordering. The Roster would indicate active toastmasters from which new agendas would be created but inactive toastmasters must remain because the Agenda relation contains a foreign key to the Roster table and past agenda tuples may refer to toastmasters no longer active.

On the back, fully define the Meeting_Duties, Meeting_Attributes, Roster, Agenda_Duties and Agenda_Attributes tables. Account for the following fields by indicating to which relation they belong.

Also, indicate an appropriate primitive data type, any constraint and what mechanism would be used to enforce the constraint.

| Meeting Duties | Meeting Attributes | Toastmaster Attributes |
|------------------------|---------------------------|-------------------------------|
| Presiding Officer | Location of Meeting | FirstName |
| Toastmaster of the Day | Meeting Theme | LastName |
| Inspiration | Title of Speech 1 | Title |
| Jokemaster | Description of Speech 1 | Phone |
| Grammarian | Title of Speech 2 | Email |
| Table Topics Master | Description of Speech 2 | Street Address |
| Speaker 1 | Title of Speech 3 | City |
| Speaker 2 | Description of Speech 3 | State |
| Speaker 3 | | Zipcode |
| General Evaluator | | Password |
| Ah-Counter | | |
| Timer | | |
| Evaluator 1 | | |
| Evaluator 2 | | |
| Evaluator 3 | | |