

Common Core of the Alumni Database for the Term Project (draft)

Table 1: Schema for “contact”

Field Name	Data Type	Nullable	is PK?
id	varchar(20)	No	Yes
name	varchar(30)	No	
address	varchar(100)	Yes	
email	varchar(50)	No	
phone_mobile	varchar(16)	Yes	
phone_work	varchar(16)	Yes	
phone_home	varchar(16)	Yes	

Table 2: Schema for “education”

Field Name	Data Type	Nullable	is PK?
id	varchar(20)	No	
degree	varchar(40)	No	
institute	varchar(50)	No	
department	varchar(50)	Yes	
start_date	date	No	
end_date	date	Yes	
concentration	varchar(100)	Yes	
obtained	unsigned int(1)	No	

Table 3: Schema for “experience”

Field Name	Data Type	Nullable	is PK?
id	varchar(20)	No	
organization	varchar(50)	No	
department	varchar(50)	Yes	
position	varchar(20)	Yes	
start_date	date	No	
end_date	date	Yes	
description	varchar(100)	Yes	

Notes:

- The attribute “id” in each table corresponds to the account id that is assumed to exist for single sign-on authentication.
- The attributes “id”, “degree”, “institute”, and “start_date” should constitute a candidate key of the table “education”.

- The attributes “id”, “organization”, and “start_date” should constitute a candidate key of the table “experience”.