

Seminar Organization

HUSemOrg: Database Design

(Hildebrandt, 22.08.07)

In this document we give an overview about the database layer of the application HUSemOrg. We firstly introduce the structure of the tables and secondly present the relationships between the entities of our data model using ER diagrams.

Tables

The table names in the database consist only of lowercase characters. We used the mixed notation to enhance the readability.

We present the structure of the tables in tabular form using the following columns:

- **Field:** the name of the attribute or table column
- **Type:** the SQL datatype if the column
- **Not Null:** indicates, if a NULL value is allowed for the column
- **Key:** indicates, if the column is a primary key
 - **PRI:** column is part of the primary key
 - **UNI:** value must be unique in the table
 - **MU:** multiple occurrences of the same value are allowed
- **Default:** the default value of the attribute
- **Extra:** extra information

The Table Person

Field	Type	Not Null	Key	Default	Extra
number_pk	int(11)	yes	PRI	NULL	auto_increment
salutation	varchar(13)	yes			
title	varchar(13)			NULL	
firstname	varchar(30)			NULL	
name	varchar(30)	yes			
street	varchar(50)			NULL	
zipCode	varchar(5)			NULL	
city	varchar(30)			NULL	
country	varchar(13)			NULL	
annex	varchar(13)			NULL	
phone	varchar(20)			NULL	
mobile	varchar(20)			NULL	
fax	varchar(20)			NULL	
email	text			NULL	
birthday	date			NULL	
firstcontact	date			NULL	
shortinfo	varchar(200)			NULL	
notices	varchar(200)			NULL	
creationdate	timestamp			0000-00-00 00:00:00	
modificationdate	timestamp			CURRENT_TIMESTAMP	

The Table Client

Field	Type	Not Null	Key	Default	Extra
person_fk	int(11)	yes	PRI	0	
task	varchar(50)			NULL	
turnover	float			NULL	
employer_fk	int(11)		MUL	NULL	

The Table Lecturer

Field	Type	Not Null	Key	Default	Extra
person_fk	int(11)	yes	PRI	0	
bio	varchar(400)			NULL	
dailyfee	float			NULL	
hourlyfee	float			NULL	

The Table Associate

Field	Type	Not Null	Key	Default	Extra
person_fk	int(11)	yes	PRI	0	
entitlement	int(11)	yes		0	
password	varchar(6)			NULL	
occupation	varchar(30)			NULL	

The Table Company

Field	Type	Not Null	Key	Default	Extra
id_pk	int(11)	yes	PRI	NULL	auto_increment
shortname	varchar(10)	yes			
salutation	varchar(13)	yes			
title	varchar(13)			NULL	
firstname	varchar(30)			NULL	
name	varchar(30)	yes			
street	varchar(50)			NULL	
zipCode	varchar(5)			NULL	
city	varchar(30)			NULL	
country	varchar(13)			NULL	
annex	varchar(13)			NULL	
phone	varchar(20)			NULL	
mobile	varchar(20)			NULL	
fax	varchar(20)			NULL	
email	text			NULL	
cpsalutation	varchar(13)	yes			
cptitle	varchar(13)			NULL	
cpfirstname	varchar(30)			NULL	
cpname	varchar(30)	yes			
cpstreet	varchar(50)			NULL	
cpzipCode	varchar(5)			NULL	
epcity	varchar(30)			NULL	
epcountry	varchar(13)			NULL	
epannex	varchar(13)			NULL	
epphone	varchar(20)			NULL	
epmobile	varchar(20)			NULL	

cpfax	varchar(20)			NULL	
cpemail	text			NULL	
cpdepartment	varchar(30)			NULL	
cpbirthday	date			NULL	
cptask	varchar(30)			NULL	
shortinfo	varchar(200)			NULL	
notices	varchar(200)			NULL	
turnover	float			NULL	
customersince	date			NULL	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

The Table Presentation

Field	Type	Not Null	Key	Default	Extra
id_pk	int(11)	yes	PRI	NULL	auto increment
seminartype_fk	int(11)	yes	MUL	0	
duration	int(11)			NULL	
beginningday	date			NULL	
endingday	date			NULL	
startingtime	time			NULL	
endingtime	time			NULL	
firststartingtime	time			NULL	
lastendingtime	time			NULL	
location	varchar(50)			NULL	
street	varchar(50)			NULL	
zipCode	varchar(5)			NULL	
city	varchar(30)			NULL	
country	varchar(13)			NULL	
annex	varchar(13)			NULL	
cancelled	tinyint(1)			NULL	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

The Table PublicPresentation

Field	Type	Not Null	Key	Default	Extra
presentation_fk	int(11)	yes	PRI	0	
coopartner	varchar(100)			NULL	
canceelfee	float			NULL	

The Table CompanyInternalPresentation

Field	Type	Not Null	Key	Default	Extra
presentation_fk	int(11)	yes	PRI	0	
packageprize	float			NULL	
maxentrants	int(11)			NULL	

The Table Booking

Field	Type	Not Null	Key	Default	Extra
id_pk	int(11)	yes	PRI	NULL	auto_increment
enrolled	date			NULL	
confirmed	date			NULL	
billed	date			NULL	
signedoff	date			NULL	
messaged	date			NULL	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

The Table ClientBooking

Field	Type	Not Null	Key	Default	Extra
booking_fk	int(11)	yes	PRI	0	
presentationid	int(11)	yes	MUL	0	
clientid	int(11)	yes	MUL	0	
debitor	int(11)		MUL	NULL	
substitute_fk	int(11)		MUL	NULL	

The Table CompanyBooking

Field	Type	Not Null	Key	Default	Extra
booking_fk	int(11)	yes	PRI	0	
presentationid	int(11)	yes	MUL	0	
companyid	int(11)	yes	MUL	0	

The Table SeminarType

Field	Type	Not Null	Key	Default	Extra
id_pk	int(11)	yes	PRI	NULL	auto_increment
shorttitle	varchar(10)	yes			
title	varchar(50)			NULL	
objective	text			NULL	
methodology	text			NULL	
topic	text			NULL	
routine	varchar(200)			NULL	
duration	int(11)			NULL	
documents	varchar(200)			NULL	
audience	varchar(200)			NULL	
requirements	varchar(200)			NULL	
charge	float			NULL	
maxEntrants	int(11)			NULL	
minEntrants	int(11)			NULL	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

Association Tables

The three associations conduct, instructor and supervisor are modelled as tables, because there are of the type M to N. The remaining associations of the application, are modelled as FK relationships.

The Table Conduct

Field	Type	Not Null	Key	Default	Extra
lecturerid	int(11)	yes	PRI	0	
seminartypeid	int(11)	yes	PRI	0	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

The Table Instructor

Field	Type	Not Null	Key	Default	Extra
lecturerid	int(11)	yes	PRI	0	
presentationid	int(11)	yes	PRI	0	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

The Table Supervisor

Field	Type	Not Null	Key	Default	Extra
lecturerid	int(11)	yes	PRI	0	
presentationid	int(11)	yes	PRI	0	
creationdate	date			0000-00-00 00:00:00	
modificationdate	date			CURRENT_TIMESTAMP	

The Table Enumeration

Field	Type	Not Null	Key	Default	Extra
type	int(11)	yes	PRI	0	
value	varchar(13)	yes	PRI		

Relationships

This section presents the relationships between the entities of the database using ER diagrams.

