Garlic - Social Media

3EHIF 2015/2016

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Description:

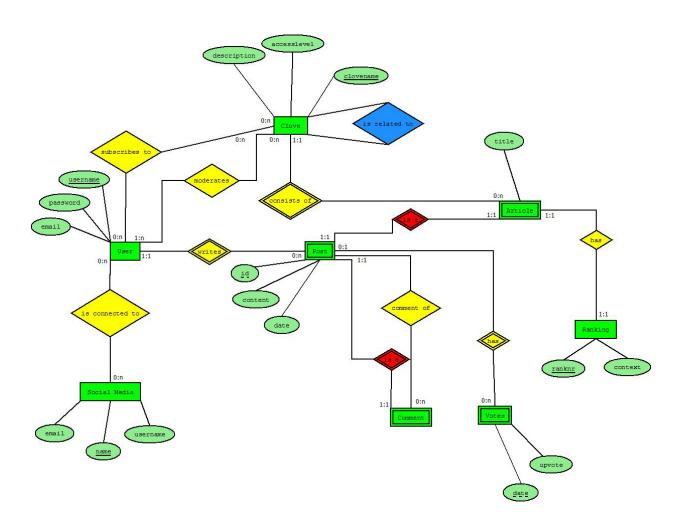
Garlic is a social network that can be accessed over a local application on your Windows Computer. A new user just needs to sign up with his or her e-mail address and password and can immediately start to write some content. The content being created is divided into categories (cloves = Knoblauchzehen) which contain articles that users can read and comment on. If a user really likes an article or a comment, he or she can easily upvote it. All upvotes are stored and in the end lead to a certain rank. Users can subscribe as well as moderate a clove. Subscribing means that the user gets notifications as soon as there is new content being posted. Moderating means that the user has full access to the clove and can edit / delete / add content that a regular user cannot.

As Garlic is not the only social media out there, the user can connect his or her other social accounts with it. This is important for sharing content and can also be used for notifications.

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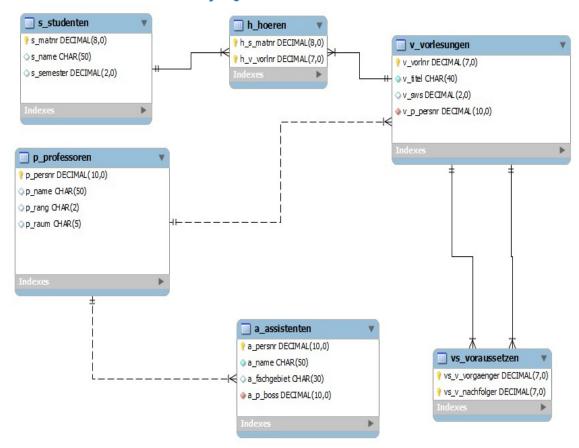
1. Entity Relationship Diagram - Extended Chen-Notation



Description of tables and attributes

Entity-Set	Attributes	Description	Datatype	Constraint
u_users	username	Identifying username	varchar	Length: 20
	email	E-Mail of the user	varchar	Length: 50
	password	Password for the user	varchar	Length: 100
p_posts	id	Identifying ID for each post	int	
	content	The posts text	varchar	Length: 10000
	date	Date when the post has been posted	datetime	
a_articles	title	The title of the article	varchar	Length: 200
co_comments				
c_cloves	name	Name of the Clove	varchar	Length:50
	access	Public / private	bool	
	description	Description of the Clove	varchar	Length:1000
sm_socialmedias	name	Name of the social media	varchar	Length: 20
	email	Email the users uses for that social media	varchar	Length: 50
	username	Username the users uses for that social media	varchar	Length: 50
r_ranking	ranknr	The rank number of the article	int	
	context	The context of the rank (Recent, Rising,)	varchar	Length: 50
v_votes	upvote	Whether the vote is up or down	bool	
	date	The date the vote was submitted	datetime	

2. Relational Model-MySQL Workbench



3. Data Description Language: Alle Befehle zum Erzeugen der Datenbank

- -- MySQL Script generated by MySQL Workbench
- -- 02/27/16 14:28:14
- -- Model: New Model Version: 1.0
- -- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0; SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0; SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='TRADITIONAL,ALLOW_INVALID_DATES';

Schema mydb
Schema mydb

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                                                           Maximilian Meyer-Mölleringhof
CREATE SCHEMA IF NOT EXISTS 'mydb' DEFAULT CHARACTER SET utf8 COLLATE utf8 general ci;
USE 'mydb';
-- Table `mydb`.`u users`
CREATE TABLE IF NOT EXISTS 'mydb'.'u users' (
`u_username` VARCHAR(20) NOT NULL COMMENT ",
'u_email' VARCHAR(50) NOT NULL COMMENT ",
`u_password` VARCHAR(100) NOT NULL COMMENT ",
PRIMARY KEY ('u username') COMMENT ",
UNIQUE INDEX 'u username UNIQUE' ('u username' ASC) COMMENT ")
ENGINE = InnoDB;
-- Table `mydb`.`p posts`
-- -----
CREATE TABLE IF NOT EXISTS 'mydb'. 'p_posts' (
'p id' INT NOT NULL COMMENT ",
'p content' VARCHAR(10000) NOT NULL COMMENT",
 `p_date` DATETIME NOT NULL COMMENT ",
 'p_u_username' VARCHAR(20) NOT NULL COMMENT ",
PRIMARY KEY ('p id') COMMENT ",
INDEX 'fk p posts u users idx' ('p u username' ASC) COMMENT ",
CONSTRAINT `fk_p_posts_u_users`
 FOREIGN KEY (`p_u_username`)
 REFERENCES 'mydb'.'u users' ('u username')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `mydb`.`co_comments`
CREATE TABLE IF NOT EXISTS 'mydb'.'co comments' (
`co_p_id` INT NOT NULL COMMENT ",
`co_p_commentof` INT NOT NULL COMMENT ",
PRIMARY KEY ('co p id') COMMENT",
INDEX 'fk co comments p posts2 idx' ('co p commentof' ASC) COMMENT ",
CONSTRAINT `fk_co_comments_p_posts1`
 FOREIGN KEY ('co_p_id')
 REFERENCES 'mydb'.'p posts' ('p id')
 ON DELETE NO ACTION
```

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 ON UPDATE NO ACTION,
CONSTRAINT `fk_co_comments_p_posts2`
 FOREIGN KEY ('co_p_commentof')
 REFERENCES 'mydb'.'p_posts' ('p_id')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `mydb`.`c cloves`
-- -----
CREATE TABLE IF NOT EXISTS 'mydb'.'c_cloves' (
 `c_name` VARCHAR(50) NOT NULL COMMENT ",
`c_access` TINYINT(1) NOT NULL COMMENT ",
`c_description` VARCHAR(1000) NULL COMMENT ",
PRIMARY KEY ('c_name') COMMENT'')
ENGINE = InnoDB;
-- Table `mydb`.`sm_socialmedias`
CREATE TABLE IF NOT EXISTS 'mydb'.'sm socialmedias' (
'sm name' VARCHAR(20) NOT NULL COMMENT ",
`sm_username` VARCHAR(50) NOT NULL COMMENT ",
'sm email' VARCHAR(50) NOT NULL COMMENT ",
PRIMARY KEY ('sm name') COMMENT")
ENGINE = InnoDB;
-- Table `mydb`.`r_rankings`
-- ------
CREATE TABLE IF NOT EXISTS 'mydb'.'r_rankings' (
`r_rank` INT NOT NULL COMMENT ",
'r context' VARCHAR(50) NOT NULL COMMENT ",
PRIMARY KEY ('r_rank') COMMENT ")
ENGINE = InnoDB;
-- Table `mydb`.`v_votes`
-- ------
```

CREATE TABLE IF NOT EXISTS 'mydb'.'v_votes' (

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'v upvote' TINYINT(1) NOT NULL COMMENT ",
 `v_date` DATETIME NOT NULL COMMENT ",
 'v_p_id' INT NOT NULL COMMENT ",
PRIMARY KEY ('v_date', 'v_p_id') COMMENT ",
INDEX `fk_v_votes_p_posts1_idx` (`v_p_id` ASC) COMMENT ",
CONSTRAINT `fk_v_votes_p_posts1`
 FOREIGN KEY ('v_p_id')
 REFERENCES 'mydb'.'p_posts' ('p_id')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `mydb`.`a articles`
CREATE TABLE IF NOT EXISTS 'mydb'.'a articles' (
'a p id' INT NOT NULL COMMENT ",
`a_c_clove` VARCHAR(50) NOT NULL COMMENT ",
`a title` VARCHAR(200) NOT NULL COMMENT ",
'a r rank' INT NOT NULL COMMENT ",
PRIMARY KEY ('a_p_id', 'a_c_clove', 'a_r_rank') COMMENT ",
INDEX `fk_a_articles_c_cloves1_idx` (`a_c_clove` ASC) COMMENT ",
INDEX `fk_a_articles_r_rankings1_idx` (`a_r_rank` ASC) COMMENT ",
CONSTRAINT 'fk a articles p posts1'
 FOREIGN KEY (`a_p_id`)
 REFERENCES 'mydb'.'p posts' ('p id')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT 'fk a articles c cloves1'
 FOREIGN KEY ('a c clove')
 REFERENCES 'mydb'.'c_cloves' ('c_name')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `fk_a_articles_r_rankings1`
 FOREIGN KEY (`a_r_rank`)
 REFERENCES 'mydb'.'r rankings' ('r rank')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `mydb`.`csm connectedsocialmedia`
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CREATE TABLE IF NOT EXISTS 'mydb'.'csm connectedsocialmedia' (
 `csm_u_username` VARCHAR(20) NOT NULL COMMENT ",
`csm_sm_name` VARCHAR(20) NOT NULL COMMENT ",
PRIMARY KEY ('csm u username', 'csm sm name') COMMENT ",
INDEX 'fk u users has sm socialmedias sm socialmedias1 idx' ('csm sm name' ASC) COMMENT
INDEX 'fk u users has sm socialmedias u users1 idx' ('csm u username' ASC) COMMENT",
CONSTRAINT `fk_u_users_has_sm_socialmedias_u_users1`
 FOREIGN KEY ('csm_u_username')
 REFERENCES 'mydb'.'u users' ('u username')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `fk_u_users_has_sm_socialmedias_sm_socialmedias1`
 FOREIGN KEY ('csm sm name')
 REFERENCES 'mydb'.'sm_socialmedias' ('sm_name')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table 'mydb'.'s subscription'
-- ------
CREATE TABLE IF NOT EXISTS 'mydb'.'s subscription' (
`s_u_username` VARCHAR(20) NOT NULL COMMENT ",
's c clovename' VARCHAR(50) NOT NULL COMMENT ",
PRIMARY KEY ('s u username', 's c clovename') COMMENT ",
INDEX `fk_u_users_has_c_cloves_c_cloves1_idx` (`s_c_clovename` ASC) COMMENT ",
INDEX 'fk u users has c cloves u users1 idx' ('s u username' ASC) COMMENT",
CONSTRAINT 'fk u users has c cloves u users1'
 FOREIGN KEY ('s_u_username')
 REFERENCES 'mydb'.'u_users' ('u_username')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `fk_u_users_has_c_cloves_c_cloves1`
 FOREIGN KEY ('s_c_clovename')
 REFERENCES 'mydb'.'c cloves' ('c name')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table 'mydb'. 'ad admins'
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CREATE TABLE IF NOT EXISTS 'mydb'. 'ad admins' (
 `ad u username` VARCHAR(20) NOT NULL COMMENT ",
'ad_c_clovename' VARCHAR(50) NOT NULL COMMENT ",
PRIMARY KEY ('ad_u_username', 'ad_c_clovename') COMMENT ",
INDEX `fk u users has c cloves c cloves2 idx` (`ad c clovename` ASC) COMMENT ",
INDEX `fk_u_users_has_c_cloves_u_users2_idx` (`ad_u_username` ASC) COMMENT ",
UNIQUE INDEX 'ad u username UNIQUE' ('ad u username' ASC) COMMENT ",
UNIQUE INDEX `c_cloves_c_name_UNIQUE` (`ad_c_clovename` ASC) COMMENT ",
CONSTRAINT `fk_u_users_has_c_cloves_u_users2`
 FOREIGN KEY ('ad u username')
 REFERENCES 'mydb'.'u users' ('u username')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `fk_u_users_has_c_cloves_c_cloves2`
 FOREIGN KEY ('ad c clovename')
 REFERENCES 'mydb'.'c_cloves' ('c_name')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `mydb`.`re realtedcloves`
-- ------
CREATE TABLE IF NOT EXISTS 'mydb'.'re realtedcloves' (
`re_c_clovename1` VARCHAR(50) NOT NULL COMMENT ",
're c clovename2' VARCHAR(50) NOT NULL COMMENT ",
PRIMARY KEY ('re c clovename1', 're c clovename2') COMMENT ",
INDEX `fk_c_cloves_has_c_cloves_c_cloves2_idx` (`re_c_clovename2` ASC) COMMENT ",
INDEX 'fk c cloves has c cloves c cloves1 idx' ('re c clovename1' ASC) COMMENT",
CONSTRAINT 'fk c cloves has c cloves c cloves1'
 FOREIGN KEY ('re_c_clovename1')
 REFERENCES 'mydb'.'c cloves' ('c name')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `fk_c_cloves_has_c_cloves_c_cloves2`
 FOREIGN KEY ('re c clovename2')
 REFERENCES `mydb`.`c_cloves` (`c_name`)
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
SET SQL MODE=@OLD SQL MODE;
SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS;
```

Garlic 3EHIF 2016/17 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS; Michael Bartl Maximilian Meyer-Mölleringhof