

ŠOLSKI CENTER NOVA GORICA



ŠC Nova Gorica  
ELEKTROTEHNIŠKA IN RAČUNALNIŠKA ŠOLA

SEMINARSKA NALOGA

# Slideshows

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## UVOD

Seminaska naloga opisuje model SQL sheme za preprosto "slideshows" aplikacijo. Vsebuje tri tabele in nekaj več relacij med njimi.

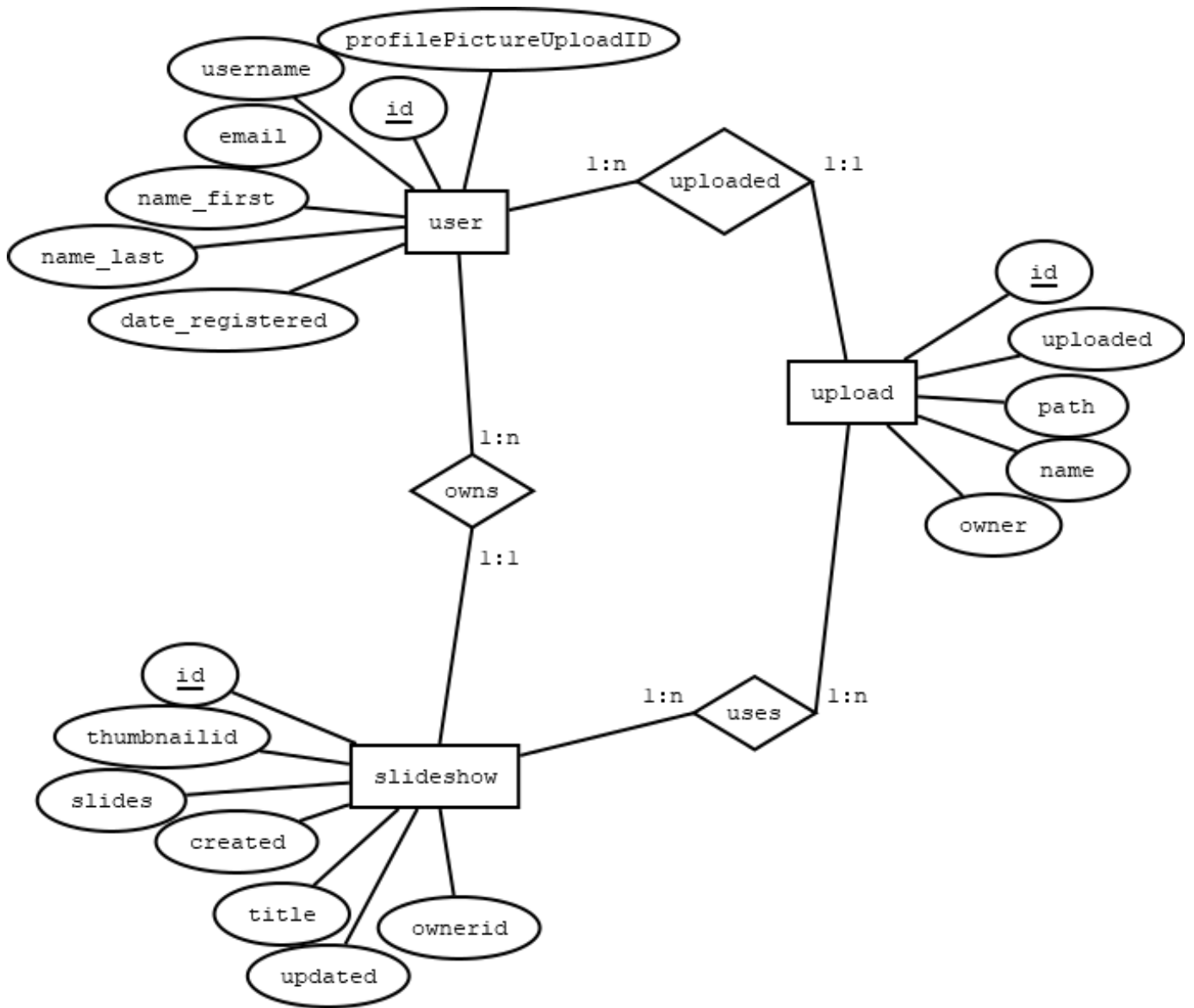
Za kreacijo konceptualnega modela sem uporabil orodje DIA, za logični model programsko orodje SQLDeveloper, za fizični model ter končno izvedmo podatkovne baze pa spletno programsko orodje phpMyAdmin. Shemo sem med koraki malo spreminjal / popravil / izboljšal, zato se podatki ne popolnoma ujemajo med posameznimi posnetku zaslona

## TEORETIČNA IZGODIŠČA

1. Imamo tri tabele; »users«, »uploads« ter »slideshows«
  - a. »users« tabela vsebuje uporabnike. Vsak uporabnik ima:
    - i. Id - Number - Identifikator, unikaten ter primarni ključ
    - ii. Email - String - vsebuje uporabnikov email naslov
    - iii. Name\_first - String - vsebuje uporabnikovo ime
    - iv. Name\_last - String - Vsebuje uporabnikov priimek
    - v. Date\_registred - Date - Vsebuje datum, ko je bil uporabnik registriran
    - vi. profilePictureUploadId - String - vsebuje ID nalozene datoteke, ki je uporabljena kot profilna slika uporabnika – Relacija na “uploads.id”
  - b. “uploads” tabela vsebuje nalaganja. Vsaka nalozena datoteka ima:
    - i. Id – Number – identifikator, unikaten ter primarni ključ
    - ii. Uploaded – Datetime – datum in ura, ko je bila datoteka nalozena
    - iii. Path – String - relativna pot datoteke na datotecnem sistemu gostujocega streznika
    - iv. Name – String – Ime datoteke
    - v. Owner – number – ID uporabnika, ki je datoteko nalozil. Relacija na “users.id”
  - c. “slideshows” tabela vsebuje predstavitev. Vsaka predstavitev ima:
    - i. Id – number – unikater ter primaren ključ
    - ii. ThumbnailId – Number – Id nalozene datoteke, ki je uporabljena kot naslovna slika predstavitev. Relacija na “uploads.id”
    - iii. Slides – TEXT – JSON object array, ki vsebuje objekte prosojnic
    - iv. Created – datetime – datum in cas ko je bila predstavitev ustvarjena
    - v. Updated – datetime – datum in cas zadnje spremembe predstavitev
    - vi. Title – String – Naslov predstavitev
    - vii. Ownerid – Number – ID nastnika predstavitev. Relacija na »users.id«

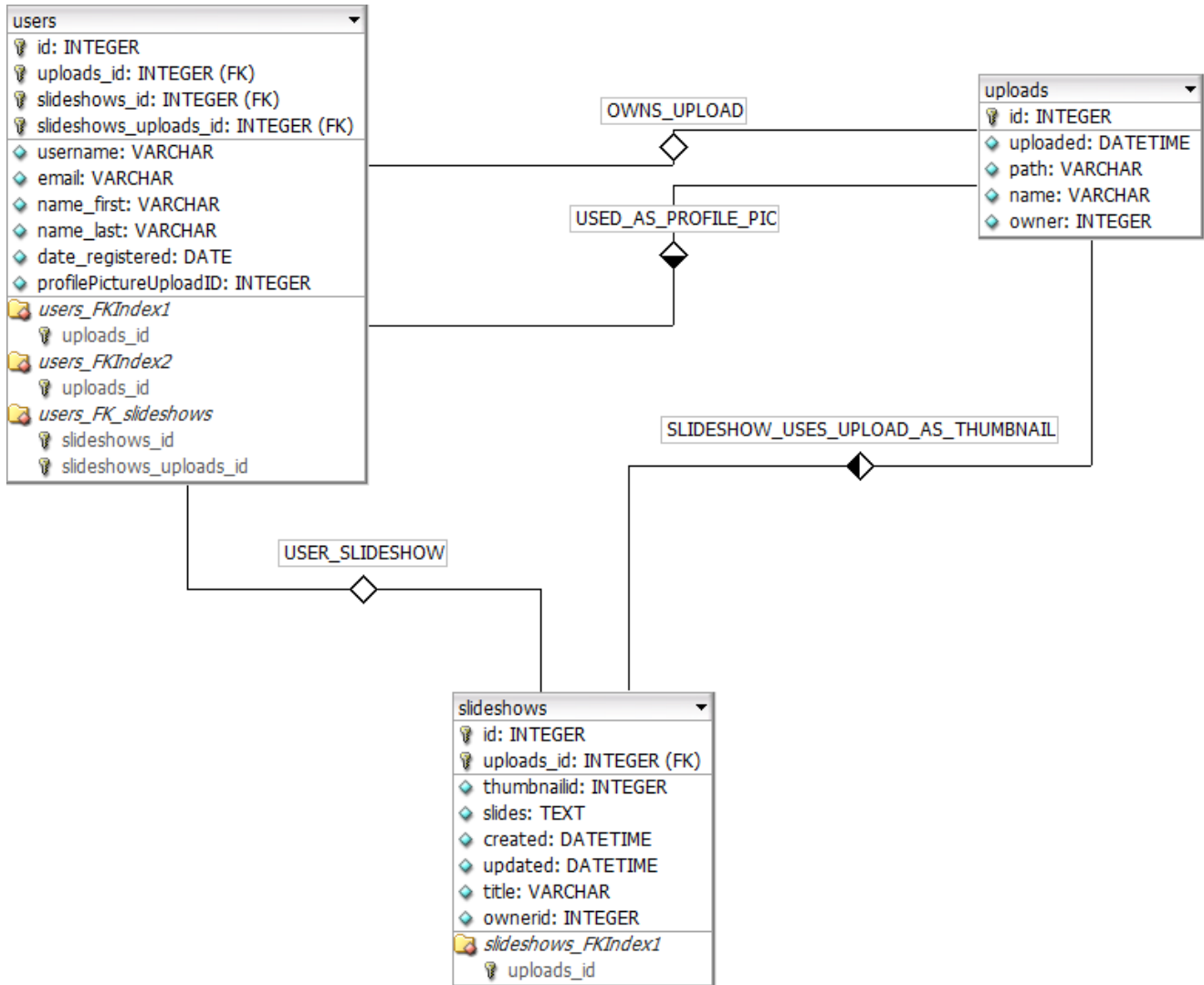
# Konceptualni model

DIA



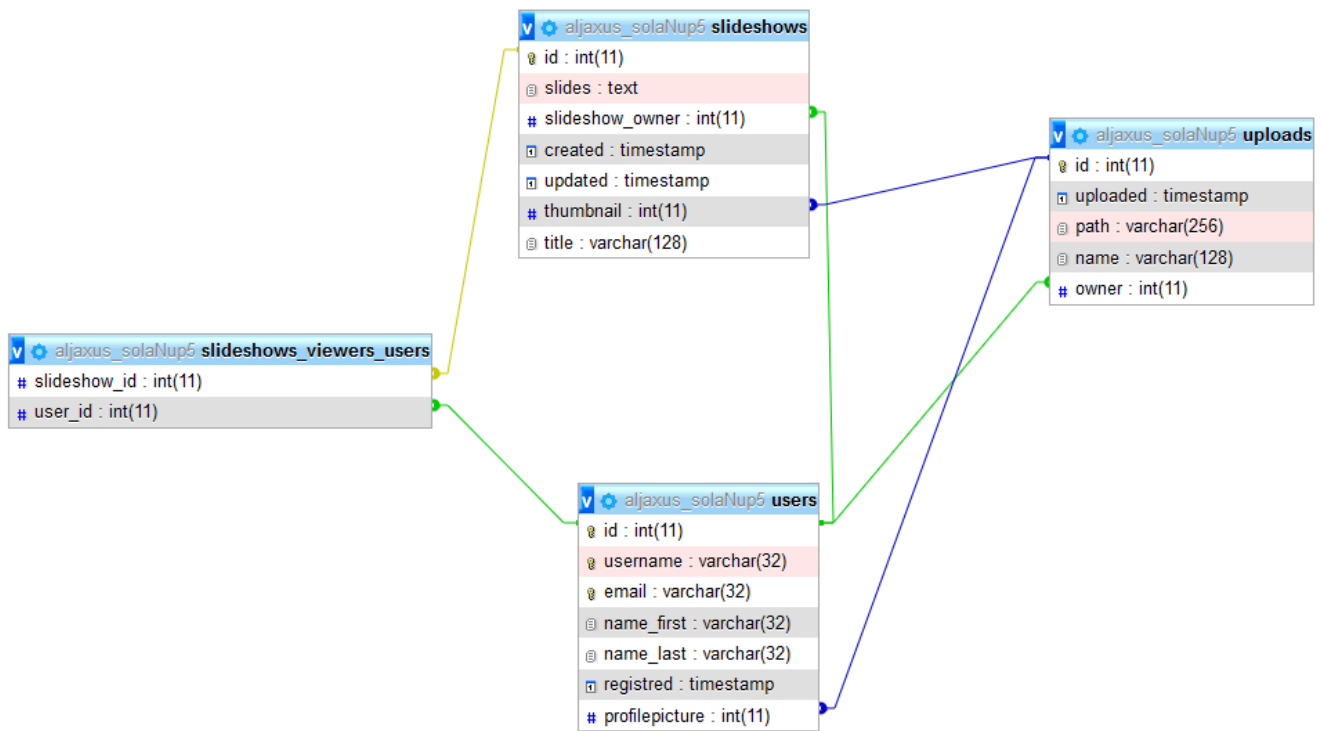
# Logicni model

Dbdesigner



# FIZIČNI MODEL

phpMyAdmin designer



# ajaxus\_solaNup5

## slideshows

Column	Type	Null	Default	Comments
id ( <i>Primary</i> )	int(11)	No		
slides	text	No		
slideshow_owner	int(11)	No		The owner's ID
created	timestamp	Yes	<i>NULL</i>	the timestamp representing the time of slideshow creating
updated	timestamp	Yes	CURRENT_TIMESTAMP	Timestamp which is updated every time the slideshow row is changed
thumbnail	int(11)	No		The ID of the upload used as slideshow thumbnail
title	varchar(128)	No		The slideshows title

## Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	
thumbnail	BTREE	No	No	thumbnail	0	A	No	
slideshows_ownerid	BTREE	No	No	slideshow_owner	0	A	No	

## slideshows\_viewers\_users

Column	Type	Null	Default	Comments
slideshow_id	int(11)	No		
user_id	int(11)	No		

## Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
user_id	BTREE	No	No	user_id	0	A	No	
				slideshow_id	0	A	No	
slideshow_id	BTREE	No	No	slideshow_id	0	A	No	

## uploads

Column	Type	Null	Default	Comments
id ( <i>Primary</i> )	int(11)	No		
uploaded	timestamp	No	CURRENT_TIMESTAMP	The exact timestamp when the asset was uploaded
path	varchar(256)	No		Upload's relative path on the hosting server filesystem
name	varchar(128)	No		Upload's filename
owner	int(11)	No		Uploads's owner ID

## Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	
owner	BTREE	No	No	owner	0	A	No	

## users

Column	Type	Null	Default	Comments
id ( <i>Primary</i> )	int(11)	No		
username	varchar(32)	No		
email	varchar(32)	No		User's full email address
name_first	varchar(32)	No		User's first name
name_last	varchar(32)	No		User's last name
registred	timestamp	No	CURRENT_TIMESTAMP	The time of user creation
profilepicture	int(11)	Yes	<i>NULL</i>	The upload.id of the user's profile picture

## Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	
username	BTREE	Yes	No	username	0	A	No	
				email	0	A	No	
profilepicture	BTREE	No	No	profilepicture	0	A	Yes	



## UKAZI ZA KREACIJO PODATKOVNE ZBIRKE

```
1 CREATE TABLE `slideshows` (  
2   `id` int(11) NOT NULL,  
3   `slides` text NOT NULL,  
4   `slideshow_owner` int(11) NOT NULL COMMENT 'The owner's ID',  
5   `created` timestamp NULL DEFAULT NULL COMMENT 'the timestamp representing the time of slideshow creating',  
6   `updated` timestamp NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP COMMENT 'Timestamp which is updated every time the slideshow row is changed',  
7   `thumbnail` int(11) NOT NULL COMMENT 'The ID of the upload used as slideshow thumbnail',  
8   `title` varchar(128) NOT NULL COMMENT 'The slideshows title'  
9 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
10  
11 CREATE TABLE `slideshows_viewers_users` (  
12   `user_id` int(11) NOT NULL,  
13   `slideshow_id` int(11) NOT NULL  
14 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
15  
16 CREATE TABLE `uploads` (  
17   `id` int(11) NOT NULL,  
18   `uploaded` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT 'The exact timestamp when the asset was uploaded',  
19   `path` varchar(256) NOT NULL COMMENT 'Upload's relative path on the hosting server filesystem',  
20   `name` varchar(128) NOT NULL COMMENT 'Upload's filename',  
21   `owner` int(11) NOT NULL COMMENT 'Uploads's owner ID'  
22 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
23  
24 CREATE TABLE `users` (  
25   `id` int(11) NOT NULL,  
26   `username` varchar(32) NOT NULL,  
27   `email` varchar(32) NOT NULL COMMENT 'User's full email address',  
28   `name_first` varchar(32) NOT NULL COMMENT 'User's first name',  
29   `name_last` varchar(32) NOT NULL COMMENT 'User's last name',  
30   `registred` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT 'The time of user creation',  
31   `profilepicture` int(11) DEFAULT NULL COMMENT 'The upload.id of the user's profile picture'  
32 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
33  
34 ALTER TABLE `slideshows` ADD PRIMARY KEY (`id`), ADD KEY `thumbnail` (`thumbnail`), ADD KEY `slideshows_ownerid` (`slideshow_owner`) USING BTREE;  
35 ALTER TABLE `slideshows_viewers_users` ADD KEY `user_id` (`user_id`,`slideshow_id`), ADD KEY `slideshow_id` (`slideshow_id`);  
36 ALTER TABLE `uploads` ADD PRIMARY KEY (`id`), ADD KEY `upload_owner` (`owner`);  
37 ALTER TABLE `users` ADD PRIMARY KEY (`id`), ADD UNIQUE KEY `username` (`username`,`email`), ADD KEY `profilepicture` (`profilepicture`);  
38 ALTER TABLE `slideshows` MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;  
39 ALTER TABLE `uploads` MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;  
40 ALTER TABLE `users` MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;  
41  
42 ALTER TABLE `slideshows`  
43   ADD CONSTRAINT `slideshows_ibfk_1` FOREIGN KEY (`slideshow_owner`) REFERENCES `users` (`id`) ON DELETE NO ACTION ON UPDATE NO ACTION,  
44   ADD CONSTRAINT `slideshows_ibfk_2` FOREIGN KEY (`thumbnail`) REFERENCES `uploads` (`id`) ON DELETE NO ACTION ON UPDATE NO ACTION;  
45  
46 ALTER TABLE `slideshows_viewers_users`  
47   ADD CONSTRAINT `slideshows_viewers_users_ibfk_2` FOREIGN KEY (`slideshow_id`) REFERENCES `slideshows` (`id`),  
48   ADD CONSTRAINT `slideshows_viewers_users_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `users` (`id`);  
49  
50 ALTER TABLE `uploads` ADD CONSTRAINT `uploads_ibfk_1` FOREIGN KEY (`id`) REFERENCES `users` (`profilepicture`);  
51 ALTER TABLE `users` ADD CONSTRAINT `users_ibfk_1` FOREIGN KEY (`id`) REFERENCES `uploads` (`owner`) ON DELETE NO ACTION ON UPDATE NO ACTION;  
52
```

## Ukazi za vpis podatkov v podatkovno zbirko

### OPOZORILO

Zaradi strukture podatkovne base (relacij, bolj specifično) se v podatkovno bazo ne da kar vstaviti podatke naenkrat, saj imajo tabele medsebojne relacije.

Primer te situacije je ustvarjanje novega uporabnika s profilno sliko – profilna slika je lahko vstavljena v tabelo le z relacijo do nekega uporabnika, te zahteve pa ne moremo izpolniti dokler nimamo vpisanega vsaj enega uporabnika v »users« tabeli. Zato najprej ustvarimo uporabnika brez profilne slike, nato vpišemo nov »upload« zapis, ki ga referenciramo na uporabnika kot njegovo profilno sliko.

### Tabela »slideshows«

```
1 INSERT INTO `slideshows` (`id`, `title`, `slides`, `slideshow_owner`, `created`, `updated`, `thumbnail`) VALUES
2 (1, 'Binova prezentacija', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
3 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 4, NULL, '2020-05-12 09:43:53', 6),
4 (2, 'New slideshow 1', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
5 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 1, NULL, '2020-05-12 09:43:53', 6),
6 (3, 'Dogs', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
7 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 7, NULL, '2020-05-12 09:59:14', 16),
8 (4, 'Cats', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
9 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 12, NULL, '2020-05-12 09:59:14', 14),
10 (5, '\džif\ or \ghif\ ?', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
11 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 6, NULL, '2020-05-12 09:59:14', 10),
12 (6, 'Cycling', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
13 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 12, NULL, '2020-05-12 09:59:14', 13),
14 (7, 'Memes in the current age', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
15 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 8, NULL, '2020-05-12 09:59:14', 7),
16 (8, 'Random characters . exe', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
17 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 5, NULL, '2020-05-12 09:59:14', 12),
18 (9, 'Image', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
19 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 6, NULL, '2020-05-12 09:59:14', 7),
20 (10, 'Presentation', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
21 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 12, NULL, '2020-05-12 09:59:14', 6),
22 (11, 'Presentation 1', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
23 {text:\slide no. 4\}', {text:\slide no. 5\}'}', 3, NULL, '2020-05-12 09:59:14', 6);
```

```
INSERT INTO `slideshows` (`id`, `title`, `slides`, `slideshow_owner`, `created`, `updated`, `thumbnail`) VALUES
(1, 'Binova prezentacija', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 4, NULL, '2020-05-12 09:43:53', 6),
(2, 'New slideshow 1', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 1, NULL, '2020-05-12 09:43:53', 6),
(3, 'Dogs', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 7, NULL, '2020-05-12 09:59:14', 16),
(4, 'Cats', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 12, NULL, '2020-05-12 09:59:14', 14),
(5, '\džif\ or \ghif\ ?', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 6, NULL, '2020-05-12 09:59:14', 10),
(6, 'Cycling', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 12, NULL, '2020-05-12 09:59:14', 13),
(7, 'Memes in the current age', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 8, NULL, '2020-05-12 09:59:14', 7),
(8, 'Random characters . exe', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 5, NULL, '2020-05-12 09:59:14', 12),
(9, 'Image', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 6, NULL, '2020-05-12 09:59:14', 7),
(10, 'Presentation', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 12, NULL, '2020-05-12 09:59:14', 6),
(11, 'Presentation 1', '{text:\slide no. 1\}', {text:\slide no. 2\}', {text:\slide no. 3\}',
{text:\slide no. 4\}', {text:\slide no. 5\}'}', 3, NULL, '2020-05-12 09:59:14', 6);
```

## Tabela »slideshows\_viewers\_users«



```
1 INSERT INTO `slideshows_viewers_users` (`slideshow_id`, `user_id`) VALUES
2 (1, 1), (1, 2), (1, 3), (2, 3), (2, 4), (1, 5),
3 (2, 5), (1, 6), (2, 6), (1, 7), (1, 8), (1, 9);
```

```
INSERT INTO `slideshows_viewers_users` (`slideshow_id`, `user_id`) VALUES
```

```
(1, 1), (1, 2), (1, 3), (2, 3), (2, 4), (1, 5),
(2, 5), (1, 6), (2, 6), (1, 7), (1, 8), (1, 9);
```

## Tabela »uploads«



```
1 INSERT INTO `uploads` (`id`, `uploaded`, `path`, `name`, `owner`) VALUES
2 (3, '2020-05-12 09:31:43', '2020-05-12-11-30-54-profile-picture.png', 'profile-picture.png', 1),
3 (4, '2020-05-12 09:31:43', '2020-05-12-11-32-23-demo-selfie.jpeg', 'demo-selfie.jpeg', 2),
4 (5, '2020-05-12 09:32:31', '2020-05-12-11-36-51-default-profile-picture.jpg', 'default-profile-picture.jpg', 1),
5 (6, '2020-05-12 09:43:11', '2020-05-12-11-30-54-default-slideshow-thumbnail.png', 'default-slideshow-thumbnail.png', 1),
6 (7, '2020-05-12 09:53:32', '2020-05-12-11-50-11-justanotherimagefile.png', 'justanotherimagefile.png', 9),
7 (8, '2020-05-12 09:53:32', '2020-05-12-11-50-11-presentation.pptx', 'presentation.pptx', 7),
8 (9, '2020-05-12 09:53:32', '2020-05-12-11-50-11-idontwannadothis.png.exe', 'idontwannadothis.png.exe', 11),
9 (10, '2020-05-12 09:53:32', '2020-05-12-11-50-11-kek.gif', 'kek.gif', 8),
10 (11, '2020-05-12 09:53:32', '2020-05-12-11-50-11-towers.pdf', 'towers.pdf', 10),
11 (12, '2020-05-12 09:53:32', '2020-05-12-11-50-11-ad198bn1209da-ad-012.jpg', 'ad198bn1209da-ad-012.jpg', 5),
12 (13, '2020-05-12 09:53:32', '2020-05-12-11-50-11-johanna-on-a-bike.jpeg', 'johanna-on-a-bike.jpeg', 11),
13 (14, '2020-05-12 09:53:32', '2020-05-12-11-50-11-cat.png', 'cat.png', 8),
14 (15, '2020-05-12 09:53:32', '2020-05-12-11-50-11-attachment.pdf', 'attachment.pdf', 3),
15 (16, '2020-05-12 09:53:32', '2020-05-12-11-50-11-dog.jpeg', 'dog.jpeg', 8);
```

```
INSERT INTO `uploads` (`id`, `uploaded`, `path`, `name`, `owner`) VALUES
```

```
(3, '2020-05-12 09:31:43', '2020-05-12-11-30-54-profile-picture.png', 'profile-picture.png', 1),
(4, '2020-05-12 09:31:43', '2020-05-12-11-32-23-demo-selfie.jpeg', 'demo-selfie.jpeg', 2),
(5, '2020-05-12 09:32:31', '2020-05-12-11-36-51-default-profile-picture.jpg', 'default-profile-picture.jpg', 1),
(6, '2020-05-12 09:43:11', '2020-05-12-11-30-54-default-slideshow-thumbnail.png', 'default-slideshow-
thumbnail.png', 1),
(7, '2020-05-12 09:53:32', '2020-05-12-11-50-11-justanotherimagefile.png', 'justanotherimagefile.png', 9),
(8, '2020-05-12 09:53:32', '2020-05-12-11-50-11-presentation.pptx', 'presentation.pptx', 7),
(9, '2020-05-12 09:53:32', '2020-05-12-11-50-11-idontwannadothis.png.exe', 'idontwannadothis.png.exe', 11),
(10, '2020-05-12 09:53:32', '2020-05-12-11-50-11-kek.gif', 'kek.gif', 8),
(11, '2020-05-12 09:53:32', '2020-05-12-11-50-11-towers.pdf', 'towers.pdf', 10),
(12, '2020-05-12 09:53:32', '2020-05-12-11-50-11-ad198bn1209da-ad-012.jpg', 'ad198bn1209da-ad-012.jpg', 5),
(13, '2020-05-12 09:53:32', '2020-05-12-11-50-11-johanna-on-a-bike.jpeg', 'johanna-on-a-bike.jpeg', 11),
(14, '2020-05-12 09:53:32', '2020-05-12-11-50-11-cat.png', 'cat.png', 8),
(15, '2020-05-12 09:53:32', '2020-05-12-11-50-11-attachment.pdf', 'attachment.pdf', 3),
(16, '2020-05-12 09:53:32', '2020-05-12-11-50-11-dog.jpeg', 'dog.jpeg', 8);
```

## Tabela »users«

```
1 INSERT INTO `users` (`id`, `username`, `email`, `name_first`, `name_last`, `registred`, `profilepicture`) VALUES
2 (1, 'aljaxus', 'me@aljaxus.eu', 'Aljaz', 'Starc', '2020-05-12 09:30:14', 3),
3 (2, 'demo', 'demo@demo.com', 'Demo', 'Account', '2020-05-12 09:30:14', 4),
4 (3, 'peter.klepec', 'peter.klepec@siol.net', 'Petek', 'Klepec', '2020-05-12 09:34:29', 5),
5 (4, 'bine69', 'bine69@gmail.com', 'Bine', 'Krap', '2020-05-12 09:34:29', 5),
6 (5, 'Gwen90', 'Gwen_Senger@gmail.com', 'Gwen', 'Senger', '2020-05-12 09:49:05', 6),
7 (6, 'Joanie_VonRueden62', 'Joanie14@yahoo.com', 'Joanie', 'VonRueden', '2020-05-12 09:49:05', 6),
8 (7, 'Theresia.Klocko', 'Theresia.Klocko@hotmail.com', 'Theresia', 'Klocko', '2020-05-12 09:49:05', 6),
9 (8, 'Jonathan89', 'Jonathan_Hoppe@gmail.com', 'Jonathan', 'Hoppe', '2020-05-12 09:49:05', 6),
10 (9, 'Zion69', 'Zion.Howe2@hotmail.com', 'Zion', 'Howe MD', '2020-05-12 09:49:05', 6),
11 (10, 'Nicolette16', 'Nicolette.Hoppe@gmail.com', 'Nicolette', 'Hoppe', '2020-05-12 09:49:05', 6),
12 (11, 'Juanita_Kessler', 'Juanita33@gmail.com', 'Dr. Juanita', 'Kessler', '2020-05-12 09:49:05', 6),
13 (12, 'Luther_Beer', 'Luther.Beer70@yahoo.com', 'Luther', 'Beer', '2020-05-12 09:49:05', 6);
```

```
INSERT INTO `users` (`id`, `username`, `email`, `name_first`, `name_last`, `registred`, `profilepicture`) VALUES
(1, 'aljaxus', 'me@aljaxus.eu', 'Aljaz', 'Starc', '2020-05-12 09:30:14', 3),
(2, 'demo', 'demo@demo.com', 'Demo', 'Account', '2020-05-12 09:30:14', 4),
(3, 'peter.klepec', 'peter.klepec@siol.net', 'Petek', 'Klepec', '2020-05-12 09:34:29', 5),
(4, 'bine69', 'bine69@gmail.com', 'Bine', 'Krap', '2020-05-12 09:34:29', 5),
(5, 'Gwen90', 'Gwen_Senger@gmail.com', 'Gwen', 'Senger', '2020-05-12 09:49:05', 6),
(6, 'Joanie_VonRueden62', 'Joanie14@yahoo.com', 'Joanie', 'VonRueden', '2020-05-12 09:49:05', 6),
(7, 'Theresia.Klocko', 'Theresia.Klocko@hotmail.com', 'Theresia', 'Klocko', '2020-05-12 09:49:05', 6),
(8, 'Jonathan89', 'Jonathan_Hoppe@gmail.com', 'Jonathan', 'Hoppe', '2020-05-12 09:49:05', 6),
(9, 'Zion69', 'Zion.Howe2@hotmail.com', 'Zion', 'Howe MD', '2020-05-12 09:49:05', 6),
(10, 'Nicolette16', 'Nicolette.Hoppe@gmail.com', 'Nicolette', 'Hoppe', '2020-05-12 09:49:05', 6),
(11, 'Juanita_Kessler', 'Juanita33@gmail.com', 'Dr. Juanita', 'Kessler', '2020-05-12 09:49:05', 6),
(12, 'Luther_Beer', 'Luther.Beer70@yahoo.com', 'Luther', 'Beer', '2020-05-12 09:49:05', 6);
```

## POIZVEDBE

Izdelajte vsaj 3 poizvedbe kjer uporabite agregatne funkcije (min, max, avg, sum, count...)

Prikazi stevilo zapisov v tabeli »uploads« ki so bili naloženi v zadnih 24 urah

```
select count(id) from uploads where uploaded > DATE_SUB(CURDATE(), INTERVAL 1 DAY)
```

Show all | Number of rows: 25  Filter rows:

+ Options

**count(id)**

14

Prikazi zadnji zapis v tabeli »uploads« kjer je »owner« vrednost IDja uporabnika z email-om »me@aljaxus.eu«

```
select id, max(uploaded) from uploads where owner = (select id from users where email = "me@aljaxus.eu")
```

Show all | Number of rows: 25  Filter rows:

+ Options

	id	max(uploaded)
<input type="checkbox"/> Edit  Copy  Delete	3	2020-05-12 11:43:11

Prikazi prvi zapis v tabeli »uploads« kjer je »owner« vrednost IDja uporabnika z email-om »me@aljaxus.eu«

```
select id, min(uploaded) from uploads where owner = (select id from users where email = "me@aljaxus.eu")
```

Show all | Number of rows: 25  Filter rows:

+ Options

	id	min(uploaded)
<input type="checkbox"/> Edit  Copy  Delete	3	2020-05-12 11:31:43

Izdelajte vsaj 3 poizvedbe kjer uporabite podatkovni tip date.

Prikazi vse zapise v tabeli »uploads« ki so bili ustvarjeni v zadnjih dveh dneh

```
select * from uploads where uploaded > DATE_SUB(CURDATE(), INTERVAL 1 DAY)
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	uploaded	path	name	owner	
		<small>The exact timestamp when the asset was uploaded</small>	<small>Upload's relative path on the hosting server files...</small>	<small>Upload's filename</small>	<small>Upload's owner ID</small>	
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	2020-05-12 11:31:43	2020-05-12-11-30-54-profile-picture.png	profile-picture.png	1
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	2020-05-12 11:31:43	2020-05-12-11-32-23-demo-selfie.jpeg	demo-selfie.jpeg	2
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	2020-05-12 11:32:31	2020-05-12-11-36-51-default-profile-picture.jpg	default-profile-picture.jpg	1
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	6	2020-05-12 11:43:11	2020-05-12-11-30-54-default-slideshow-thumbnail.png	default-slideshow-thumbnail.png	1
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	2020-05-12 11:53:32	2020-05-12-11-50-11-justanotherimagefile.png	justanotherimagefile.png	9
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	8	2020-05-12 11:53:32	2020-05-12-11-50-11-presentation.pptx	presentation.pptx	7
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	9	2020-05-12 11:53:32	2020-05-12-11-50-11-idontwannadothis.png.exe	idontwannadothis.png.exe	11
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	10	2020-05-12 11:53:32	2020-05-12-11-50-11-kek.gif	kek.gif	8
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	11	2020-05-12 11:53:32	2020-05-12-11-50-11-towers.pdf	towers.pdf	10
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	12	2020-05-12 11:53:32	2020-05-12-11-50-11-ad198bn1209da-ad-012.jpg	ad198bn1209da-ad-012.jpg	5
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	13	2020-05-12 11:53:32	2020-05-12-11-50-11-johanna-on-a-bike.jpeg	johanna-on-a-bike.jpeg	11
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	14	2020-05-12 11:53:32	2020-05-12-11-50-11-cat.png	cat.png	8
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	15	2020-05-12 11:53:32	2020-05-12-11-50-11-attachment.pdf	attachment.pdf	3
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	16	2020-05-12 11:53:32	2020-05-12-11-50-11-dog.jpeg	dog.jpeg	8

Prikazi zapise v tabeli »slideshows«, ki so bili spremenjeni v zadnjih 8 dneh

```
select * from slideshows where updated > DATE_SUB(CURDATE(), INTERVAL 7 DAY)
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	title	slides	slideshow_owner	updated	thumbnail	
		<small>The slideshow's title</small>		<small>The owner's ID</small>	<small>Timestamp which is updated every time the slideshow is updated</small>	<small>The ID of the upload used as slideshow thumbnail</small>	
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	Binova prezentacija	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	4	2020-05-12 11:43:53	6
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	2	New slideshow 1	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	1	2020-05-12 11:43:53	6
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	Dogs	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	7	2020-05-12 11:59:14	16
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	Cats	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	12	2020-05-12 11:59:14	14
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	"džif" or "ghif" ?	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	6	2020-05-12 11:59:14	10
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	6	Cycling	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	12	2020-05-12 11:59:14	13
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	Memes in the current age	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	8	2020-05-12 11:59:14	7
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	8	Random characters.exe	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	5	2020-05-12 11:59:14	12
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	9	Image	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	6	2020-05-12 11:59:14	7
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	10	Presentation	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	12	2020-05-12 11:59:14	6
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	11	Presentation 1	[[text:"slide no. 1"], [text:"slide no. 2"], [text:"slide no. 3"]]	3	2020-05-12 11:59:14	6

Prikazi vsa nalaganja iz zadnjega leta

```
select * from uploads where uploaded > DATE_SUB(CURDATE(), INTERVAL 365 DAY)
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	uploaded	path	name	owner	
		<small>The exact timestamp when the asset was uploaded</small>	<small>Upload's relative path on the hosting server files...</small>	<small>Upload's filename</small>	<small>Upload's owner ID</small>	
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	2020-05-12 11:31:43	2020-05-12-11-30-54-profile-picture.png	profile-picture.png	1
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	2020-05-12 11:31:43	2020-05-12-11-32-23-demo-selfie.jpeg	demo-selfie.jpeg	2
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	2020-05-12 11:32:31	2020-05-12-11-36-51-default-profile-picture.jpg	default-profile-picture.jpg	1
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	6	2020-05-12 11:43:11	2020-05-12-11-30-54-default-slideshow-thumbnail.png	default-slideshow-thumbnail.png	1
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	2020-05-12 11:53:32	2020-05-12-11-50-11-justanotherimagefile.png	justanotherimagefile.png	9
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	8	2020-05-12 11:53:32	2020-05-12-11-50-11-presentation.pptx	presentation.pptx	7
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	9	2020-05-12 11:53:32	2020-05-12-11-50-11-idontwannadothis.png.exe	idontwannadothis.png.exe	11
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	10	2020-05-12 11:53:32	2020-05-12-11-50-11-kek.gif	kek.gif	8
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	11	2020-05-12 11:53:32	2020-05-12-11-50-11-towers.pdf	towers.pdf	10
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	12	2020-05-12 11:53:32	2020-05-12-11-50-11-ad198bn1209da-ad-012.jpg	ad198bn1209da-ad-012.jpg	5
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	13	2020-05-12 11:53:32	2020-05-12-11-50-11-johanna-on-a-bike.jpeg	johanna-on-a-bike.jpeg	11
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	14	2020-05-12 11:53:32	2020-05-12-11-50-11-cat.png	cat.png	8
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	15	2020-05-12 11:53:32	2020-05-12-11-50-11-attachment.pdf	attachment.pdf	3
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	16	2020-05-12 11:53:32	2020-05-12-11-50-11-dog.jpeg	dog.jpeg	8

Izdelajte vsaj 3 poizvedbe kjer uporabite stavek group by.

Prikazi maksimalno eno predstavitev vsakega uporabnika

```
SELECT * FROM `slideshow` GROUP BY slideshow_owner
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	title	slides	slideshow_owner	updated	thumbnail
		The slideshow's title		The owner's ID	Timestamp which is updated every time the slideshow...	The ID of the upload used as slideshow thumbnail
<input type="checkbox"/> Edit Copy Delete	2	New slideshow 1	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	1	2020-05-12 11:43:53	6
<input type="checkbox"/> Edit Copy Delete	11	Presentation 1	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	3	2020-05-12 11:59:14	6
<input type="checkbox"/> Edit Copy Delete	1	Binova prezentacija	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	4	2020-05-12 11:43:53	6
<input type="checkbox"/> Edit Copy Delete	8	Random characters . exe	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	5	2020-05-12 11:59:14	12
<input type="checkbox"/> Edit Copy Delete	5	"džif" or "ghif" ?	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	6	2020-05-12 11:59:14	10
<input type="checkbox"/> Edit Copy Delete	3	Dogs	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	7	2020-05-12 11:59:14	16
<input type="checkbox"/> Edit Copy Delete	7	Memes in the current age	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	8	2020-05-12 11:59:14	7
<input type="checkbox"/> Edit Copy Delete	4	Cats	[[text:"slide no. 1"], [text:"slide no. 2"], [text...	12	2020-05-12 11:59:14	14

Prikazi koliko »slideshow«-ov ima vsak uporabnik

```
select count(id), slideshow_owner from slideshow GROUP BY slideshow_owner
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	count(id)	slideshow_owner
		The owner's ID
<input type="checkbox"/> Edit Copy Delete	1	1
<input type="checkbox"/> Edit Copy Delete	1	3
<input type="checkbox"/> Edit Copy Delete	1	4
<input type="checkbox"/> Edit Copy Delete	1	5
<input type="checkbox"/> Edit Copy Delete	2	6
<input type="checkbox"/> Edit Copy Delete	1	7
<input type="checkbox"/> Edit Copy Delete	1	8
<input type="checkbox"/> Edit Copy Delete	3	12

Prikazi stevilo uporabnikov, ki uporabljajo iste profilne slike

```
SELECT count(id), profilepicture from users GROUP BY profilepicture
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	count(id)	profilepicture
		The upload.id of the user's profile picture
<input type="checkbox"/> Edit Copy Delete	1	3
<input type="checkbox"/> Edit Copy Delete	1	4
<input type="checkbox"/> Edit Copy Delete	2	5
<input type="checkbox"/> Edit Copy Delete	8	6

Izdelajte poizvedbe iz relacije tipa n:m.

Prikazi stevilo uporabnikov, ki uporabljajo iste profilne slike

```
SELECT count(id), profilepicture from users GROUP BY profilepicture
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	count(id)	profilepicture
<input type="checkbox"/> Edit Copy Delete	1	3
<input type="checkbox"/> Edit Copy Delete	1	4
<input type="checkbox"/> Edit Copy Delete	2	5
<input type="checkbox"/> Edit Copy Delete	8	6

Izdelajte poizvedbe iz relacije tipa 1:n.

Izberi vse zapise iz tabele »uploads« kjer je atribut »owner« vrednost IDja uporabnika z »email« atributom vrednosti »me@aljaxus.eu«

```
select * from uploads where owner = (select id from users where email = "me@aljaxus.eu")
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	uploaded	path	name	owner
<input type="checkbox"/> Edit Copy Delete	3	2020-05-12 11:31:43	2020-05-12-11-30-54-profile-picture.png	profile-picture.png	1
<input type="checkbox"/> Edit Copy Delete	5	2020-05-12 11:32:31	2020-05-12-11-36-51-default-profile-picture.jpg	default-profile-picture.jpg	1
<input type="checkbox"/> Edit Copy Delete	6	2020-05-12 11:43:11	2020-05-12-11-30-54-default-slideshow-thumbnail.png	default-slideshow-thumbnail.png	1



Izdelajte vsaj po eno poizvedbo z: inner, left, right in full join-om. Iz rezultatov poizvedb mora biti razvidno delovanje join stavkov.

Prikazi id ter naslov vseh »slideshow«-ov ter ID in username lastnika teh »slideshow«-ov kjer je prikazna slika »slideshow«-a vpis v tabeli »uploads« z vrednostjo polja »name« »default-slideshow-thumbnail.png«

```
SELECT slideshows.id, slideshows.title, slideshows.updated, users.id, users.username from slideshows JOIN users ON slideshows.slideshow_owner = users.id WHERE slideshows.thumbnail = ( select id from uploads WHERE uploads.name = "default-slideshow-thumbnail.png" )
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

id	title	updated	id	username
1	Binova prezentacija	2020-05-12 11:43:53	4	bine69
2	New slideshow 1	2020-05-12 11:43:53	1	ajaxus
10	Presentation	2020-05-12 11:59:14	12	Luther_Beer
11	Presentation 1	2020-05-12 11:59:14	3	peter.klepec

Izdelajte vsaj 3 vgnezdenne poizvedbe.

Prikazi zadnji zapis v tabeli »uploads« kjer je »owner« vrednost IDja uporabnika z email-om »me@aljaxus.eu«

```
select id, max(uploaded) from uploads where owner = (select id from users where email = "me@aljaxus.eu")
```

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	id	max(uploaded)
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2020-05-12 11:43:11

Prikazi prvi zapis v tabeli »uploads« kjer je »owner« vrednost IDja uporabnika z email-om »me@aljaxus.eu«

```
select id, min(uploaded) from uploads where owner = (select id from users where email = "me@aljaxus.eu")
```

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	id	min(uploaded)
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2020-05-12 11:31:43

Prikazi uporabnika, ki je lastnik prvega »slideshow«-a, ki se vedno uporablja privzeto ikono predstavitve

```
SELECT id, username from users where id = ( select slideshow_owner from slideshows where thumbnail = ( select id from uploads where name = "default-slideshow-thumbnail.png" ) LIMIT 1 )
```

Profiling [Edit inline] [Edit] [Explain SQL]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	id	username
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	bine69

↑  Check all | With selected:  Edit  Copy  Delete  Export