КУРСОВАЯ РАБОТА

по курсу «Основы реляционных баз данных. MySQL»

по теме: «База данных фильмов и сериалов»

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Оглавление

Введение

В данной работе представлена база данных фильмов, сериалов и пользователей для сайта выдуманного «cinemag». Для создания базы данных выбраны следующие таблицы: фильмы, характеристики фильмов, жанры, рейтинг, компании, режиссеры, страны, актеры, пользователи сайта, информация о пользователях. Для удобной работы с информацией в таблицах созданы представления отдельно для фильмов и сериалов и представление с информацией о данных пользователей. Для изучения информации в таблицах были использованы агрегационные запросы по таблицам с информацией о пользователях сайта, актёрах и режиссерах фильмов. Для работы с данными в представлениях для фильмов и сериалов были созданы процедуры.

Создание таблиц

Сначала была создана общая таблица с уникальным ключом id, колонкой названия фильмов name, для которой имеется индекс по первым шести символам, чтобы ускорить поиск, колонка is_series, для того, чтобы обозначить, что запись в таблице является сериалом (y) или фильмом (n).

```sql
DROP TABLE IF EXISTS `films`;
CREATE TABLE `films` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `name` varchar(256) COLLATE utf8_unicode_ci DEFAULT NULL,
  `is_series` char(1) COLLATE utf8_unicode_ci DEFAULT NULL COMMENT 'фильм или
сериал',
  PRIMARY KEY (`id`),
  KEY `film_name_idx` (`name`(6))
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

Далее таблица с характеристиками фильмов, содержащая id фильмов film_id (для создания внешнего ключа, чтобы связать данную таблицу с таблицей films), описание description, год выпуска years, бюджет фильмов budget.

```sql
DROP TABLE IF EXISTS `film_characteristics`;
CREATE TABLE `film_characteristics` (
  `film_id` bigint(20) unsigned NOT NULL,
  `descriprion` varchar(1024) COLLATE utf8_unicode_ci DEFAULT NULL,
  `years` int(32) DEFAULT NULL,
  `budget` double DEFAULT NULL,
  KEY `film_id` (`film_id`),
  CONSTRAINT `film_characteristics_ibfk_1` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

На следующем этапе создавалась таблица с жанрами фильмов genre, также содержащая внешний ключ для связи с главной таблицей films.

```sql
DROP TABLE IF EXISTS `genre`;
CREATE TABLE `genre` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `name_id` bigint(20) unsigned NOT NULL,
  `name` varchar(256) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `name_id` (`name_id`),
  CONSTRAINT `genre_ibfk_1` FOREIGN KEY (`name_id`) REFERENCES `films` (`id`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

Также у фильмов, есть рейтинг. Создана таблица рейтинга фильмов rating, которая содержит число звезд (фильм может иметь от 1 до 10 звезд), присвоенное фильмам stars, rating_id для создания внешнего ключа.

```sql
DROP TABLE IF EXISTS `rating`;
CREATE TABLE `rating` (
  `rating_id` bigint(20) unsigned NOT NULL,
  `stars` int(2) DEFAULT NULL,
  KEY `rating_id` (`rating_id`),
  CONSTRAINT `rating_ibfk_1` FOREIGN KEY (`rating_id`) REFERENCES `films`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

Таблица с компаниями company содержит id, company_id, название компании name.

```sql
DROP TABLE IF EXISTS `company`;
CREATE TABLE `company` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `company_id` bigint(20) unsigned NOT NULL,
  `name` varchar(64) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `company_id` (`company_id`),
  CONSTRAINT `company_ibfk_1` FOREIGN KEY (`company_id`) REFERENCES `films`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

В таблице с режиссерами фильмов имеются id, имя режиссера firstname, фамилия lastname, год рождения year_of_birth, национальность nationality.

```sql
DROP TABLE IF EXISTS `film_director`;
CREATE TABLE `film_director` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `firstname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `lastname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `year_of_birth` int(10) DEFAULT NULL,
  `nationality` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

Для того, чтобы связать фильмы с их режиссерами, была создана таблица с отношением «многие-ко-многим» directors_to_films.

```sql
DROP TABLE IF EXISTS `directors_to_films`;
CREATE TABLE `directors_to_films` (
  `director_id` bigint(20) unsigned NOT NULL,
```

```
  `film_id` bigint(20) unsigned NOT NULL,
  KEY `director_id` (`director_id`),
  KEY `film_id` (`film_id`),
  CONSTRAINT `directors_to_films_ibfk_1` FOREIGN KEY (`director_id`)
REFERENCES `film_director` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `directors_to_films_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

Таблица со странами country содержит информацию по странам: назование name и их буквенный код code.

```
DROP TABLE IF EXISTS `country`;
CREATE TABLE `country` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `id_country` bigint(20) unsigned NOT NULL,
  `code` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  `name` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `id_country` (`id_country`),
  CONSTRAINT `country_ibfk_1` FOREIGN KEY (`id_country`) REFERENCES `films`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

Таблица с актёрами actors содержит id, имя аткера firstname, фаминию актера lastname, год рождения year_of_birth и национальность nationality.

```
DROP TABLE IF EXISTS `actors`;
CREATE TABLE `actors` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `firstname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `lastname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `year_of_birth` int(10) DEFAULT NULL,
  `nationality` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

Для того, чтобы связать фильмы с их актерами, также была создана таблица с отношением «многие-ко-многим» actors_to_films.

```
DROP TABLE IF EXISTS `actors_to_films`;
CREATE TABLE `actors_to_films` (
  `actor_id` bigint(20) unsigned NOT NULL,
  `film_id` bigint(20) unsigned NOT NULL,
  KEY `actor_id` (`actor_id`),
  KEY `film_id` (`film_id`),
  CONSTRAINT `actors_to_films_ibfk_1` FOREIGN KEY (`actor_id`) REFERENCES
`actors` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `actors_to_films_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
      ) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

Таблица с пользователями users, содержит id пользователей, логин users_log и пароль users_password.

```
DROP TABLE IF EXISTS `users`;
CREATE TABLE `users` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `users_log` varchar(250) COLLATE utf8_unicode_ci DEFAULT NULL,
  `users_password` varchar(250) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;
```

Далее была создана таблица с информацией о пользователе inf_about_users, в которой есть имя пользователя firstname, фамилия lastname, дата рождения years_of_birth, национальность nationality и страна пользователя country.

```
DROP TABLE IF EXISTS `inf_about_users`;
CREATE TABLE `inf_about_users` (
  `inf_about_users_id` bigint(20) unsigned NOT NULL,
  `firstname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `lastname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `year_of_birth` int(10) DEFAULT NULL,
  `nationality` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  `country` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  KEY `inf_about_users_id` (`inf_about_users_id`),
  CONSTRAINT `inf_about_users_ibfk_1` FOREIGN KEY (`inf_about_users_id`)
REFERENCES `users` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

Для того, чтобы связать пользователей и фильмы (для того, чтобы они могли хранить свой список любимых или понравившихся фильмов), была создана таблица с отношением «многие-ко-многим» users_to_films.

```
DROP TABLE IF EXISTS `users_to_films`;
CREATE TABLE `users_to_films` (
  `user_id` bigint(20) unsigned NOT NULL,
  `film_id` bigint(20) unsigned NOT NULL,
  KEY `user_id` (`user_id`),
  KEY `film_id` (`film_id`),
  CONSTRAINT `users_to_films_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES
`users` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `users_to_films_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
    ) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

Каждая таблица заполнялась по 100 записей. Код представлен в приложении данной работы.

Создание представлений

Для сериалов создавалось представление series, которое содержит записи из таблиц films, film_caracteristics, rating, company, directors_to_films, film_director, actors_to_films и actors, где is_series из таблицы films равно «y» (yes).

```sql
DROP VIEW IF EXISTS series;
CREATE VIEW series AS
SELECT
      films.name NAME,
      fc.years YEARS,
      fc.budget BUDGET,
      CONCAT(dir.firstname, ' ', dir.lastname) DIRECTOR,
      CONCAT(actors.firstname, ' ', actors.lastname) ACTOR,
      rating.stars STARS,
      company.name COMPANY
FROM films
JOIN film_characteristics fc ON fc.film_id = films.id
JOIN rating ON rating.rating_id = films.id
JOIN company ON company.company_id = films.id
JOIN directors_to_films dtf ON dtf.film_id = films.id
JOIN film_director dir ON dir.id = dtf.director_id
JOIN actors_to_films atf ON atf.film_id = films.id
JOIN actors ON actors.id = atf.actor_id
WHERE films.is_series = 'y';
```

Отдельно для фильмов создано представление movies, которое содержит записи из таблиц films, film_caracteristics, rating, company, directors_to_films, film_director, actors_to_films и actors, где is_series из таблицы films равно «n» (no).

```sql
DROP VIEW IF EXISTS movies;
CREATE VIEW movies AS
SELECT
      films.name NAME,
      fc.years YEARS,
      fc.budget BUDGET,
      CONCAT(dir.firstname, ' ', dir.lastname) DIRECTOR,
      CONCAT(actors.firstname, ' ', actors.lastname) ACTOR,
      rating.stars STARS,
      company.name COMPANY
FROM films
JOIN film_characteristics fc ON fc.film_id = films.id
JOIN rating ON rating.rating_id = films.id
JOIN company ON company.company_id = films.id
JOIN directors_to_films dtf ON dtf.film_id = films.id
JOIN film_director dir ON dir.id = dtf.director_id
JOIN actors_to_films atf ON atf.film_id = films.id
JOIN actors ON actors.id = atf.actor_id
WHERE films.is_series = 'n';
```

Для удобства создано представление users_info, которое включает информацию о логине пользователя, его полное имя (имя и фамилия сделаны с помощью конкатинации CONCAT), его страну, национальность и год рождения. Данные взяты из таблиц users и inf_about_users.

```sql
DROP VIEW IF EXISTS users_info;
CREATE VIEW users_info AS
SELECT
      users.users_log LOGIN,
      CONCAT (inf_about_users.firstname,' ',inf_about_users.lastname) PERSON,
      inf_about_users.country COUNTRY,
      inf_about_users.year_of_birth `YEAR OF BIRTH`,
      inf_about_users.nationality NATIONALITY
FROM users
JOIN inf_about_users ON inf_about_users.inf_about_users_id = users.id;
```

Использование запросов агрегации

Чтобы узнать распределение пользователей по возрасту (он получен с помощью вычитания текущего года и года рождения пользователя), сделан группировочный запрос GROUP BY по year_of_birth из таблицы inf_about_users.

```sql
SELECT 2020 - year_of_birth AGE, COUNT(*)
FROM inf_about_users
GROUP BY year_of_birth
ORDER BY year_of_birth;
```

Чтобы узнать распределение по национальности актеров, режиссёров и пользователей, был использован запрос GROUP BY по колонке nationality из таблиц actors, film_director и inf_about_users соответственно.

```sql
SELECT nationality, COUNT(*)
FROM inf_about_users
GROUP BY nationality
ORDER BY nationality;

SELECT nationality, COUNT(*)
FROM actors
GROUP BY nationality
ORDER BY nationality;



SELECT nationality, COUNT(*)
FROM film_director
GROUP BY nationality
ORDER BY nationality;
```

Создание процедур

Для получения информации о количестве «хороших» фильмов, имеющих оценку не ниже определенной, создана процедура, в которую передается количество звезд о (в данном случае 5 «здезд») и возвращающую количество фильмов с нужным рейтингом из представления movies.

```sql
DELIMITER //
DROP PROCEDURE IF EXISTS number_of_good_films//
CREATE PROCEDURE number_of_good_films(INOUT value INT)
BEGIN
  SELECT COUNT(*) INTO value FROM movies WHERE stars >= value;
END//
SET @number = 5//
CALL number_of_good_films(@number)//
SELECT @number//
```

По аналогии создана процедура для представления series, возвращающая количество «плохих» сериалов (с оценкой ниже 5 «звёзд»).

```sql
DROP PROCEDURE IF EXISTS number_of_bad_series//
CREATE PROCEDURE number_of_bad_series (INOUT value INT)
BEGIN
  SELECT COUNT(*) INTO value FROM series WHERE stars <= value;
END//
SET @number = 5//
CALL number_of_bad_series(@number)//
SELECT @number//
DELIMITER ;
```

Приложение

```sql
-- Generation time: Fri, 18 Dec 2020 20:20:11 +0000
-- Host: mysql.hostinger.ro
-- DB name: u574849695_24
/*!40030 SET NAMES UTF8 */;
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

DROP DATABASE IF EXISTS cinemag;
CREATE DATABASE cinemag;
USE cinemag;

DROP TABLE IF EXISTS `actors`;
CREATE TABLE `actors` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `firstname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `lastname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `year_of_birth` int(10) DEFAULT NULL,
  `nationality` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `actors` VALUES ('1','Maximillian','Ortiz','1975','USA'),
('2','Adam','Walter','1985','GER'),
('3','Kyle','Jacobson','2001','ENG'),
('4','Hadley','Sipes','2005','IT'),
('5','Dion','Waters','1994','KZ'),
('6','Hermina','Bosco','2019','FRA'),
('7','Carlo','O\'Connell','1990','CH'),
('8','Veronica','Greenfelder','2003','GER'),
('9','Marion','Christiansen','1982','IT'),
('10','Myrna','Larkin','2013','USA'),
('11','Cletus','Bins','1981','FRA'),
('12','Isabell','Blanda','1992','USA'),
('13','Lenny','Volkman','1986','CH'),
('14','Hannah','Cremin','2010','CH'),
('15','Drew','Bergnaum','2018','IT'),
('16','Leola','Schimmel','2006','GER'),
('17','Brandi','Morissette','1998','ENG'),
('18','Johann','Wiza','1995','ENG'),
('19','Thad','Smith','1992','RUS'),
('20','Mario','Upton','2015','GER'),
('21','Alexandrea','VonRueden','1983','RUS'),
('22','Christ','Barton','2001','RUS'),
('23','Maximo','Wunsch','1990','USA'),
('24','Heaven','Bernhard','2013','SPA'),
('25','Helen','Reichel','1978','SPA'),
('26','Helmer','Cronin','1995','ENG'),
('27','Zoey','Jaskolski','1977','CH'),
('28','Casimer','Balistreri','1998','CH'),
('29','Dahlia','Morissette','1985','ENG'),
```

```
('30','Sally','Watsica','1990','IT'),
('31','Clemens','Treutel','1998','ENG'),
('32','Wilfredo','D\'Amore','1987','USA'),
('33','Rachel','Blick','1990','KZ'),
('34','Jammie','Haley','1998','ENG'),
('35','Santiago','Lemke','2006','GER'),
('36','Margarett','Wisoky','1977','SPA'),
('37','Trevor','Hagenes','1998','IT'),
('38','Favian','Fay','1976','SPA'),
('39','Marisa','Upton','2004','ENG'),
('40','Natasha','Auer','2013','GER'),
('41','Sharon','Hessel','2004','KZ'),
('42','Anya','Stanton','1972','FRA'),
('43','Monty','Trantow','2000','SPA'),
('44','Monica','Schaefer','2007','FRA'),
('45','Casper','Vandervort','2006','KZ'),
('46','Reta','White','2006','CH'),
('47','Jadon','Halvorson','1999','RUS'),
('48','Dominique','Volkman','1982','ENG'),
('49','Korbin','Daniel','2012','IT'),
('50','Evert','McDermott','1985','RUS'),
('51','Walter','Gaylord','2002','RUS'),
('52','Lacey','Quigley','2017','FRA'),
('53','Vance','Parker','2019','SPA'),
('54','Everette','Nikolaus','1971','SPA'),
('55','Destiney','Kulas','1988','FRA'),
('56','Anabel','Hand','1998','KZ'),
('57','Newell','Stanton','2001','KZ'),
('58','Berta','Jacobi','1978','GER'),
('59','Zoey','Homenick','1993','KZ'),
('60','Elliot','McKenzie','2004','RUS'),
('61','Rex','Kerluke','1975','RUS'),
('62','Amara','Larkin','1977','CH'),
('63','Amy','Emmerich','2004','IT'),
('64','Arvilla','Boehm','1983','KZ'),
('65','Izabella','Daugherty','2020','IT'),
('66','Kennedi','Ullrich','1971','FRA'),
('67','Jeffery','Windler','1979','KZ'),
('68','Elisabeth','Goldner','2006','GER'),
('69','Ron','McLaughlin','2016','FRA'),
('70','Travis','Ledner','2008','IT'),
('71','Loma','Paucek','1971','ENG'),
('72','Lloyd','Howe','1979','IT'),
('73','Janis','Bins','1982','USA'),
('74','Francisca','Prosacco','1977','FRA'),
('75','Ken','Mertz','1998','GER'),
('76','Jayde','Denesik','2012','ENG'),
('77','Porter','Mertz','1988','KZ'),
('78','Emmalee','Kemmer','2003','CH'),
('79','Kiara','Tillman','1994','KZ'),
('80','Taurean','Satterfield','1985','ENG'),
('81','Lavern','Spinka','1977','USA'),
('82','Hermina','Hills','1975','GER'),
('83','Robyn','Klein','2020','IT'),
('84','Trever','Frami','1996','RUS'),
('85','Bernie','Mitchell','2010','GER'),
('86','Erica','Hartmann','1982','SPA'),
('87','Dallin','Weissnat','1976','GER'),
('88','Elinor','Harber','1986','IT'),
('89','Jarrell','Gislason','1976','GER'),
('90','Maddison','Kovacek','1994','SPA'),
('91','Jamil','Deckow','2000','USA'),
('92','Gus','Daniel','2005','USA'),
```

```sql
  ('93','Nelle','Sipes','1984','SPA'),
  ('94','Soledad','Rowe','2014','CH'),
  ('95','Deontae','Denesik','2007','CH'),
  ('96','Carlos','Leuschke','1978','SPA'),
  ('97','Marge','Bailey','2008','CH'),
  ('98','Ivah','Becker','2019','SPA'),
  ('99','Laverne','Ledner','1971','IT'),
  ('100','Regan','Haag','2011','IT');


DROP TABLE IF EXISTS `actors_to_films`;
CREATE TABLE `actors_to_films` (
  `actor_id` bigint(20) unsigned NOT NULL,
  `film_id` bigint(20) unsigned NOT NULL,
  KEY `actor_id` (`actor_id`),
  KEY `film_id` (`film_id`),
  CONSTRAINT `actors_to_films_ibfk_1` FOREIGN KEY (`actor_id`) REFERENCES
`actors` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `actors_to_films_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

INSERT INTO `actors_to_films` VALUES ('1','1'),
('2','2'),
('3','3'),
('4','4'),
('5','5'),
('6','6'),
('7','7'),
('8','8'),
('9','9'),
('10','10'),
('11','11'),
('12','12'),
('13','13'),
('14','14'),
('15','15'),
('16','16'),
('17','17'),
('18','18'),
('19','19'),
('20','20'),
('21','21'),
('22','22'),
('23','23'),
('24','24'),
('25','25'),
('26','26'),
('27','27'),
('28','28'),
('29','29'),
('30','30'),
('31','31'),
('32','32'),
('33','33'),
('34','34'),
('35','35'),
('36','36'),
('37','37'),
('38','38'),
('39','39'),
('40','40'),
('41','41'),
```

```sql
('42','42'),
('43','43'),
('44','44'),
('45','45'),
('46','46'),
('47','47'),
('48','48'),
('49','49'),
('50','50'),
('51','51'),
('52','52'),
('53','53'),
('54','54'),
('55','55'),
('56','56'),
('57','57'),
('58','58'),
('59','59'),
('60','60'),
('61','61'),
('62','62'),
('63','63'),
('64','64'),
('65','65'),
('66','66'),
('67','67'),
('68','68'),
('69','69'),
('70','70'),
('71','71'),
('72','72'),
('73','73'),
('74','74'),
('75','75'),
('76','76'),
('77','77'),
('78','78'),
('79','79'),
('80','80'),
('81','81'),
('82','82'),
('83','83'),
('84','84'),
('85','85'),
('86','86'),
('87','87'),
('88','88'),
('89','89'),
('90','90'),
('91','91'),
('92','92'),
('93','93'),
('94','94'),
('95','95'),
('96','96'),
('97','97'),
('98','98'),
('99','99'),
('100','100');


DROP TABLE IF EXISTS `company`;
CREATE TABLE `company` (
```

```sql
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `company_id` bigint(20) unsigned NOT NULL,
  `name` varchar(64) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `company_id` (`company_id`),
  CONSTRAINT `company_ibfk_1` FOREIGN KEY (`company_id`) REFERENCES `films`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `company` VALUES ('1','1','consectetur'),
('2','2','alias'),
('3','3','minima'),
('4','4','numquam'),
('5','5','sed'),
('6','6','qui'),
('7','7','voluptas'),
('8','8','maiores'),
('9','9','adipisci'),
('10','10','laboriosam'),
('11','11','et'),
('12','12','mollitia'),
('13','13','dicta'),
('14','14','velit'),
('15','15','sit'),
('16','16','distinctio'),
('17','17','delectus'),
('18','18','et'),
('19','19','corrupti'),
('20','20','voluptatibus'),
('21','21','enim'),
('22','22','placeat'),
('23','23','vel'),
('24','24','et'),
('25','25','sit'),
('26','26','impedit'),
('27','27','dolore'),
('28','28','inventore'),
('29','29','possimus'),
('30','30','illo'),
('31','31','debitis'),
('32','32','fuga'),
('33','33','vel'),
('34','34','consequuntur'),
('35','35','ipsam'),
('36','36','veritatis'),
('37','37','reprehenderit'),
('38','38','sunt'),
('39','39','quae'),
('40','40','molestiae'),
('41','41','enim'),
('42','42','fugit'),
('43','43','est'),
('44','44','fugiat'),
('45','45','vel'),
('46','46','voluptatibus'),
('47','47','numquam'),
('48','48','tempora'),
('49','49','quidem'),
('50','50','ipsum'),
('51','51','eos'),
('52','52','fugit'),
('53','53','sit'),
```

```sql
('54','54','molestiae'),
('55','55','ut'),
('56','56','voluptatem'),
('57','57','itaque'),
('58','58','neque'),
('59','59','veritatis'),
('60','60','est'),
('61','61','eos'),
('62','62','dicta'),
('63','63','necessitatibus'),
('64','64','necessitatibus'),
('65','65','et'),
('66','66','nihil'),
('67','67','quidem'),
('68','68','sed'),
('69','69','et'),
('70','70','consequuntur'),
('71','71','non'),
('72','72','distinctio'),
('73','73','iusto'),
('74','74','blanditiis'),
('75','75','consequatur'),
('76','76','deserunt'),
('77','77','laboriosam'),
('78','78','doloribus'),
('79','79','aliquid'),
('80','80','quaerat'),
('81','81','velit'),
('82','82','culpa'),
('83','83','est'),
('84','84','vel'),
('85','85','iste'),
('86','86','sed'),
('87','87','omnis'),
('88','88','maiores'),
('89','89','officia'),
('90','90','quidem'),
('91','91','debitis'),
('92','92','eaque'),
('93','93','incidunt'),
('94','94','facere'),
('95','95','totam'),
('96','96','dolorem'),
('97','97','earum'),
('98','98','sed'),
('99','99','consequuntur'),
('100','100','deleniti');


DROP TABLE IF EXISTS `country`;
CREATE TABLE `country` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `id_country` bigint(20) unsigned NOT NULL,
  `code` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  `name` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `id_country` (`id_country`),
  CONSTRAINT `country_ibfk_1` FOREIGN KEY (`id_country`) REFERENCES `films`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `country` VALUES ('1','1','z','natus'),
```

```
('2','2','y','quis'),
('3','3','n','hic'),
('4','4','o','voluptatibus'),
('5','5','x','distinctio'),
('6','6','c','sed'),
('7','7','p','beatae'),
('8','8','w','vitae'),
('9','9','p','dicta'),
('10','10','d','aut'),
('11','11','p','praesentium'),
('12','12','k','omnis'),
('13','13','h','vitae'),
('14','14','g','saepe'),
('15','15','e','laudantium'),
('16','16','i','aut'),
('17','17','x','officiis'),
('18','18','k','quibusdam'),
('19','19','d','consequatur'),
('20','20','v','rerum'),
('21','21','m','laudantium'),
('22','22','p','aut'),
('23','23','f','sapiente'),
('24','24','a','omnis'),
('25','25','w','sit'),
('26','26','r','dolor'),
('27','27','r','nihil'),
('28','28','y','perspiciatis'),
('29','29','k','minima'),
('30','30','x','neque'),
('31','31','g','sit'),
('32','32','k','praesentium'),
('33','33','f','ratione'),
('34','34','b','cumque'),
('35','35','f','dolorum'),
('36','36','m','accusamus'),
('37','37','s','numquam'),
('38','38','n','natus'),
('39','39','o','et'),
('40','40','z','qui'),
('41','41','t','est'),
('42','42','c','qui'),
('43','43','q','voluptatem'),
('44','44','i','eos'),
('45','45','z','vitae'),
('46','46','l','quia'),
('47','47','n','nobis'),
('48','48','i','neque'),
('49','49','n','ex'),
('50','50','e','alias'),
('51','51','a','voluptatem'),
('52','52','s','magnam'),
('53','53','t','doloribus'),
('54','54','e','impedit'),
('55','55','h','sapiente'),
('56','56','z','voluptate'),
('57','57','x','quod'),
('58','58','g','ut'),
('59','59','a','occaecati'),
('60','60','p','incidunt'),
('61','61','x','qui'),
('62','62','s','minima'),
('63','63','e','officia'),
('64','64','a','aut'),
```

```sql
    ('65','65','m','aperiam'),
    ('66','66','l','eius'),
    ('67','67','t','asperiores'),
    ('68','68','e','at'),
    ('69','69','s','quis'),
    ('70','70','o','architecto'),
    ('71','71','s','magni'),
    ('72','72','o','exercitationem'),
    ('73','73','t','vel'),
    ('74','74','h','ipsa'),
    ('75','75','f','sint'),
    ('76','76','y','architecto'),
    ('77','77','r','expedita'),
    ('78','78','z','omnis'),
    ('79','79','v','dolore'),
    ('80','80','t','magni'),
    ('81','81','d','modi'),
    ('82','82','r','voluptatem'),
    ('83','83','w','nulla'),
    ('84','84','p','odio'),
    ('85','85','v','minus'),
    ('86','86','a','enim'),
    ('87','87','d','eveniet'),
    ('88','88','a','voluptatem'),
    ('89','89','r','quas'),
    ('90','90','z','vel'),
    ('91','91','w','ex'),
    ('92','92','s','provident'),
    ('93','93','y','tempore'),
    ('94','94','l','ex'),
    ('95','95','i','eos'),
    ('96','96','u','deleniti'),
    ('97','97','i','quos'),
    ('98','98','r','ipsa'),
    ('99','99','j','amet'),
    ('100','100','e','repudiandae');


DROP TABLE IF EXISTS `directors_to_films`;
CREATE TABLE `directors_to_films` (
  `director_id` bigint(20) unsigned NOT NULL,
  `film_id` bigint(20) unsigned NOT NULL,
  KEY `director_id` (`director_id`),
  KEY `film_id` (`film_id`),
  CONSTRAINT `directors_to_films_ibfk_1` FOREIGN KEY (`director_id`)
REFERENCES `film_director` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `directors_to_films_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

INSERT INTO `directors_to_films` VALUES ('1','1'),
('2','2'),
('3','3'),
('4','4'),
('5','5'),
('6','6'),
('7','7'),
('8','8'),
('9','9'),
('10','10'),
('11','11'),
('12','12'),
('13','13'),
```

```
('14','14'),
('15','15'),
('16','16'),
('17','17'),
('18','18'),
('19','19'),
('20','20'),
('21','21'),
('22','22'),
('23','23'),
('24','24'),
('25','25'),
('26','26'),
('27','27'),
('28','28'),
('29','29'),
('30','30'),
('31','31'),
('32','32'),
('33','33'),
('34','34'),
('35','35'),
('36','36'),
('37','37'),
('38','38'),
('39','39'),
('40','40'),
('41','41'),
('42','42'),
('43','43'),
('44','44'),
('45','45'),
('46','46'),
('47','47'),
('48','48'),
('49','49'),
('50','50'),
('51','51'),
('52','52'),
('53','53'),
('54','54'),
('55','55'),
('56','56'),
('57','57'),
('58','58'),
('59','59'),
('60','60'),
('61','61'),
('62','62'),
('63','63'),
('64','64'),
('65','65'),
('66','66'),
('67','67'),
('68','68'),
('69','69'),
('70','70'),
('71','71'),
('72','72'),
('73','73'),
('74','74'),
('75','75'),
('76','76'),
```

```sql
  ('77','77'),
  ('78','78'),
  ('79','79'),
  ('80','80'),
  ('81','81'),
  ('82','82'),
  ('83','83'),
  ('84','84'),
  ('85','85'),
  ('86','86'),
  ('87','87'),
  ('88','88'),
  ('89','89'),
  ('90','90'),
  ('91','91'),
  ('92','92'),
  ('93','93'),
  ('94','94'),
  ('95','95'),
  ('96','96'),
  ('97','97'),
  ('98','98'),
  ('99','99'),
  ('100','100');


DROP TABLE IF EXISTS `film_characteristics`;
CREATE TABLE `film_characteristics` (
  `film_id` bigint(20) unsigned NOT NULL,
  `descriprion` varchar(1024) COLLATE utf8_unicode_ci DEFAULT NULL,
  `years` int(32) DEFAULT NULL,
  `budget` double DEFAULT NULL,
  KEY `film_id` (`film_id`),
  CONSTRAINT `film_characteristics_ibfk_1` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

INSERT INTO `film_characteristics` VALUES ('1','Enim magni voluptas quisquam
amet consectetur itaque sed provident velit fugit.','2012','4427085805.448'),
('2','In sunt eum quo quibusdam tempora culpa in
nisi.','2010','1393205290.9'),
('3','Voluptas et rem sint debitis dolorum sapiente impedit et
non.','1972','227459480.52891'),
('4','Est sit error ea quia et hic omnis esse odit vel
accusantium.','1974','3478197359'),
('5','Molestiae exercitationem voluptatem ipsum autem et ea debitis in quidem
ullam dolor.','2011','1202821483.4067'),
('6','Voluptatem dolore ipsam nisi molestiae alias numquam velit quia
assumenda delectus.','1990','2646139696.53'),
('7','Aperiam quia et quo consequatur non
perspiciatis.','1977','1794566083.0095'),
('8','Commodi necessitatibus ut necessitatibus quibusdam et
et.','1998','2933252430.8'),
('9','Voluptatem optio voluptate quaerat ut porro minus
eius.','1993','4149219775.366'),
('10','Numquam rerum ipsa porro et dolorum necessitatibus
voluptas.','1999','3473994321.6'),
('11','Occaecati mollitia atque velit quae et impedit fugiat cupiditate
ratione.','2020','3480883459.997'),
('12','Ut et et suscipit dicta sunt ipsum harum
natus.','1988','3618570618.3'),
('13','Maxime dolorem culpa aut sed molestias aut perferendis architecto
voluptates neque sed incidunt.','2019','4636966898.3661'),
```

('14','Facilis et quo aperiam laboriosam praesentium dolorem voluptatem qui
deleniti consectetur.','1973','426905806.90107'),
('15','Nemo ad reprehenderit non sit dicta quia et fugiat
officia.','1996','572075316.4'),
('16','Et a sed quas magni voluptatem veniam et et
quis.','1982','1025140361'),
('17','Consequatur molestiae et et nostrum nesciunt corporis itaque nihil
error velit.','2009','4681441048.8594'),
('18','Quia ut officiis fuga dicta ut dolores dolor eum soluta vero quaerat
vitae nihil id.','1993','1910981018.3918'),
('19','Commodi vitae voluptas voluptates molestias a facere
velit.','2012','3085152027'),
('20','Molestiae consectetur reiciendis quasi pariatur ipsum temporibus est
dolor minus beatae aut.','1991','4620349024.2731'),
('21','Odit assumenda aut illum soluta quia rerum iste nobis qui
autem.','2009','4204069567'),
('22','Ut perferendis sunt ipsam aut et quibusdam nisi dolorum accusantium et
officia.','1976','4780651740.26'),
('23','Quaerat mollitia aliquam optio rerum exercitationem aut perferendis
odit molestiae.','1990','1580268507.9836'),
('24','Qui fuga dolorem iure iure ipsa minima in.','2001','4625624232.1892'),
('25','Eos doloribus blanditiis rerum eum ratione explicabo
consequuntur.','2002','139713707.6674'),
('26','Officia aut voluptas voluptas quas sunt sint porro sit
autem.','1974','2117174871'),
('27','A ut in deserunt et odio quas architecto dolores culpa esse architecto
necessitatibus.','1986','4673357319.54'),
('28','Delectus in inventore odio a occaecati perspiciatis aut excepturi
qui.','2009','203554653.6844'),
('29','Doloremque dolorum sit inventore optio perferendis quaerat asperiores
explicabo cum.','1983','1675955131.3439'),
('30','Quibusdam deleniti debitis enim asperiores nam perferendis et ipsum
distinctio labore voluptas nobis labore.','2012','291893806.9644'),
('31','Voluptate omnis eveniet placeat nihil ut doloremque velit
voluptatibus.','1983','1905587158'),
('32','A voluptas animi velit unde rerum excepturi dignissimos
sint.','1998','156828262.975'),
('33','Velit tempore ab natus illo non officia rerum unde
labore.','1975','507569443'),
('34','Nihil eligendi eum consequatur recusandae sit nam animi culpa omnis
qui ut ut aut.','1984','815089164.87031'),
('35','Harum natus excepturi voluptatem dignissimos quia animi consequatur
suscipit non at nesciunt hic.','1991','4955878310.79'),
('36','Eius rem nesciunt ea quisquam et culpa eos.','2020','1916727903.8'),
('37','Itaque consequatur voluptates adipisci nam illum vero assumenda modi
quia optio.','2019','4352999458.7'),
('38','Tempore voluptatibus in consequatur in molestias
velit.','2002','142114961.79377'),
('39','Aliquid minima nam doloremque nostrum cumque enim cum
vel.','1996','2767612529.7188'),
('40','Dolor non fugit dolore officia eveniet soluta voluptas asperiores
impedit impedit quos.','1995','480366086.8894'),
('41','Temporibus aut placeat et iste libero illo.','2014','2159067854.4'),
('42','Beatae iste sit earum voluptas earum at earum dolore enim ut ipsa
nulla.','1986','2934819376.0604'),
('43','Neque in alias odio rerum voluptate voluptatem qui culpa
quo.','2006','1540424259.11'),
('44','Ut ad molestias quibusdam modi eum sequi dicta excepturi consequatur
est at porro.','2012','2064445886.24'),
('45','Dolorum iste earum incidunt quidem dolore voluptatem est et dolor
culpa ea velit earum.','2016','1874732784.539'),
('46','Soluta sed autem provident voluptate autem
molestias.','1995','3409893166.4395'),

```
('47','Soluta ut officia quibusdam esse molestiae nihil
quibusdam.','2018','3100253473.5181'),
('48','Hic amet sit ullam provident architecto quam placeat deserunt maiores
omnis.','1981','45462261.421439'),
('49','Voluptatem minima sit impedit dignissimos voluptates repellendus qui
modi.','2008','2648283048.8604'),
('50','Beatae quasi voluptas et ipsum minima sunt.','2000','1577800326.702'),
('51','Harum eligendi reprehenderit autem perspiciatis eos blanditiis
asperiores consequuntur quo minus ratione hic.','1974','4790220076.6'),
('52','Voluptas omnis a omnis neque doloremque quia
et.','2002','4884926564.7'),
('53','Quod et quia et repellat voluptatem fugiat.','1976','3303841430.13'),
('54','Sint qui sunt et rerum corporis molestiae ipsam veniam
voluptas.','2007','1707671231.4749'),
('55','Non ad odit fugit beatae ratione qui dolorem unde aliquam
voluptatem.','1992','1879926232'),
('56','Inventore placeat commodi nam qui magni et aut unde quaerat
explicabo.','1978','3812560971.7396'),
('57','Ea non veritatis incidunt repellat hic dolorem optio architecto aut
vel est ducimus accusantium nihil.','1984','499810040.14'),
('58','In pariatur et sit aut dolorem eos
tenetur.','1997','2083510926.3222'),
('59','Alias odit iusto veritatis officia dolore blanditiis aut cupiditate
est nulla autem suscipit sapiente est.','1984','2182523625.567'),
('60','Ducimus sunt repellat molestias dolorem eos quia odio et error atque
perspiciatis quam.','1998','1326680415.78'),
('61','Cumque voluptatibus ea repellat enim animi culpa quam est nemo
voluptas sit.','1993','1976504391.319'),
('62','Illo quam vel ut et voluptatem velit.','2002','56175374.618316'),
('63','Ut officia omnis eaque aliquam sunt
nostrum.','2006','1822936610.021'),
('64','Dolorum beatae eligendi saepe accusantium repudiandae ipsa mollitia
provident.','2004','3444669836.4122'),
('65','Non distinctio totam quas dolorem omnis reprehenderit tempore at
in.','2007','1285503370.0587'),
('66','Assumenda beatae veritatis rerum placeat aspernatur sit error
qui.','1992','3150530619.3101'),
('67','Earum omnis voluptas corporis cum sequi velit natus officiis vero
repellendus alias a.','1999','4821914106.7514'),
('68','Blanditiis id unde quo fugit doloremque voluptatibus inventore ut
adipisci et mollitia.','1983','1279674400.1786'),
('69','Nobis voluptas quo modi optio iste est laboriosam
temporibus.','1985','3833965316.714'),
('70','Rerum voluptatem ipsa minima placeat ipsum ut qui aliquid
perspiciatis.','2004','2477278160'),
('71','Sit et sequi magni vel officiis repudiandae
est.','1988','2886429159.2773'),
('72','Amet animi nam in ut quia corporis.','1973','1317334237.048'),
('73','Repellendus qui numquam consectetur dicta vero inventore
sequi.','2007','735734301.72367'),
('74','Quis reprehenderit debitis deleniti corrupti magni officiis omnis
dolores quod vel dolor.','2020','865415484.48442'),
('75','Illum et placeat reiciendis exercitationem exercitationem
laboriosam.','1970','1966100188.445'),
('76','Dolor quia sit officiis aut delectus voluptatibus aut nisi
ipsum.','1998','2935028581.3369'),
('77','Corporis est quis harum ut suscipit non et qui accusantium vitae
quidem.','1986','3400497092'),
('78','Commodi harum recusandae libero iure odit ab
quia.','2005','4451199064.5712'),
('79','Sit omnis rerum facilis id aut sed corrupti.','1982','952592619.84'),
('80','Adipisci rem qui corporis omnis nihil sint porro impedit est quibusdam
nisi.','1980','763938436.3'),
```

```sql
('81','Voluptatibus aliquam consequatur ut ut labore dolore quidem quo
atque.','1994','2517624399'),
('82','Et illum quidem nesciunt voluptas ullam distinctio ipsam
porro.','1986','1541763451.809'),
('83','Facilis omnis voluptatem fugit quos provident esse voluptatibus alias
temporibus pariatur odio.','2004','1071275972.5031'),
('84','Laboriosam aut molestias rerum culpa vero doloremque quisquam
cupiditate a cumque maxime qui.','1974','2165361195.6321'),
('85','Aliquid aut modi perferendis nemo mollitia animi
non.','1970','1148645961.7936'),
('86','Voluptates quaerat sit voluptates est qui quasi quisquam
sint.','2000','1733823637.2667'),
('87','Perspiciatis deleniti harum voluptas eum rerum temporibus occaecati
laboriosam quae cupiditate.','1970','3221532701.0805'),
('88','Voluptatem nam inventore libero eum ut sit
culpa.','1993','2584092056.0103'),
('89','Atque quo et qui natus est qui ut veritatis est rerum
ratione.','1973','2322473683.0739'),
('90','Magni consequuntur ipsam tenetur vel ut quaerat pariatur
quis.','2016','677552890.1046'),
('91','Explicabo consectetur aperiam perferendis est nihil voluptatem
unde.','1990','123988294.20818'),
('92','Voluptas fugiat ut id harum qui vitae est harum quia
praesentium.','2000','785108991.46431'),
('93','Ut consequatur in et architecto nam eos.','1996','3113755429.2799'),
('94','Libero doloremque quo dignissimos maxime qui qui tempore sit vel autem
et.','2002','811932417.3655'),
('95','Quod enim quisquam accusantium molestiae voluptatem quis
consequuntur.','2003','269234048.72331'),
('96','Nisi ipsam nihil dolorem iste atque ab
architecto.','2019','1319393551.502'),
('97','Voluptas voluptas maxime laboriosam illo maxime veniam accusantium
sed.','1983','510142296'),
('98','Impedit repudiandae atque iure porro sint assumenda
aliquam.','2005','4486553589.8181'),
('99','Molestiae nihil deserunt natus esse commodi maxime
tenetur.','2003','138322565.8039'),
('100','In delectus aut ipsam et nulla et perspiciatis qui
minus.','2006','3145533141.0436');


DROP TABLE IF EXISTS `film_director`;
CREATE TABLE `film_director` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `firstname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `lastname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `year_of_birth` int(10) DEFAULT NULL,
  `nationality` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `film_director` VALUES ('1','Henri','Christiansen','1984','RUS'),
('2','Katlyn','Brown','1985','FRA'),
('3','Eden','Rowe','2014','KZ'),
('4','Eldora','Jakubowski','1993','IT'),
('5','Shemar','Swaniawski','1974','RUS'),
('6','Irving','Huels','2003','FRA'),
('7','Forrest','Hintz','2003','RUS'),
('8','Alyce','Donnelly','2016','SWD'),
('9','Watson','Abernathy','1985','CH'),
('10','Pascale','Barrows','2020','CH'),
('11','Gwen','Hettinger','2013','SWD'),
```

```
('12','Andreanne','Ledner','1984','FRA'),
('13','Lauriane','Erdman','1978','SWD'),
('14','Rory','Bergnaum','1972','USA'),
('15','Willis','Satterfield','1987','ENG'),
('16','Samantha','Swaniawski','2018','USA'),
('17','Brandyn','Wintheiser','1998','ENG'),
('18','Blake','Berge','1993','CH'),
('19','Danny','Carter','1987','ENG'),
('20','Tanner','Roberts','1987','RUS'),
('21','Kacey','Beahan','1975','USA'),
('22','Lina','Deckow','1983','USA'),
('23','Helga','Williamson','2006','IT'),
('24','Berneice','Wilderman','2014','IT'),
('25','Nickolas','Okuneva','1997','IT'),
('26','Eldridge','Smitham','1983','ENG'),
('27','Adolph','Buckridge','1974','CH'),
('28','Macie','Carroll','2011','FRA'),
('29','Emmy','Collier','2017','FRA'),
('30','Myles','Hermiston','2020','FRA'),
('31','Clemens','Braun','2005','USA'),
('32','Kattie','Purdy','2000','ENG'),
('33','Jazmin','Schamberger','2013','CH'),
('34','Trever','Grady','1997','IT'),
('35','Flo','McCullough','2011','RUS'),
('36','Lavada','Waters','2003','USA'),
('37','Fay','Smitham','2007','ENG'),
('38','Nash','Okuneva','2009','KZ'),
('39','Jayden','Breitenberg','1970','IT'),
('40','Fanny','Swift','1999','ENG'),
('41','Ignatius','Raynor','2017','USA'),
('42','Nelson','Marks','2002','SWD'),
('43','Addison','Harvey','2011','SWD'),
('44','Christine','Smith','1975','IT'),
('45','Andreanne','Mayer','1974','CH'),
('46','Orval','Conroy','2012','USA'),
('47','Retha','Windler','1999','SWD'),
('48','Sheridan','Douglas','1996','KZ'),
('49','Madge','Kuhn','2008','KZ'),
('50','Javon','Turcotte','1983','IT'),
('51','May','Runolfsdottir','2017','RUS'),
('52','Hunter','Bechtelar','2012','FRA'),
('53','Boyd','Kuphal','2019','CH'),
('54','Kaitlyn','Murphy','1994','SWD'),
('55','Madeline','Howe','2020','USA'),
('56','Caterina','Schumm','1986','RUS'),
('57','Gabriel','Cartwright','2008','SWD'),
('58','Anibal','Cronin','1993','CH'),
('59','Hollie','Kohler','1976','RUS'),
('60','Freeman','Block','1990','FRA'),
('61','D\'angelo','Hane','2001','ENG'),
('62','Imogene','Kub','2001','ENG'),
('63','Kallie','Herman','2014','SWD'),
('64','Aurelia','Stark','1976','KZ'),
('65','Emie','Fisher','1992','CH'),
('66','Torrance','Stroman','2000','FRA'),
('67','Marlene','O\'Kon','2018','FRA'),
('68','Fredy','Hegmann','2016','KZ'),
('69','Noe','Wuckert','1990','IT'),
('70','Max','Kautzer','1988','KZ'),
('71','Reynold','Wilderman','1975','ENG'),
('72','Dudley','Russel','1981','RUS'),
('73','Audreanne','Grady','2005','FRA'),
('74','Jenifer','Wolf','1980','FRA'),
```

```sql
('75','Lavada','Rath','2019','FRA'),
('76','Kieran','Durgan','2001','CH'),
('77','Cleve','Lueilwitz','1976','ENG'),
('78','Koby','Skiles','1986','USA'),
('79','Mylene','Boyer','2001','USA'),
('80','Matilda','Erdman','1991','IT'),
('81','Garnett','Leannon','2004','KZ'),
('82','Adriana','Schiller','2017','FRA'),
('83','Frederik','Hahn','2003','RUS'),
('84','Emery','Schmidt','2005','ENG'),
('85','Lexie','Sauer','2015','ENG'),
('86','Afton','Feest','1999','USA'),
('87','Earl','Hermiston','2015','SWD'),
('88','Floyd','Ondricka','1999','RUS'),
('89','Jabari','Labadie','1985','USA'),
('90','Orval','Rogahn','2005','ENG'),
('91','Kenna','Bernhard','1989','IT'),
('92','Rolando','O\'Reilly','1989','KZ'),
('93','Anne','Champlin','2019','CH'),
('94','Gene','Rice','2011','CH'),
('95','Armani','Emard','1988','ENG'),
('96','Claudine','Barrows','1992','RUS'),
('97','Enoch','Herman','1987','KZ'),
('98','Vladimir','Schuppe','2001','SWD'),
('99','Savanna','Hermann','2001','ENG'),
('100','Laurence','Wisozk','1972','RUS');


DROP TABLE IF EXISTS `films`;
CREATE TABLE `films` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `name` varchar(256) COLLATE utf8_unicode_ci DEFAULT NULL,
  `is_series` char(1) COLLATE utf8_unicode_ci DEFAULT NULL COMMENT 'фильм или
сериал',
  PRIMARY KEY (`id`),
  KEY `film_name_idx` (`name`(6))
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `films` VALUES ('1','dignissimos','n'),
('2','sunt','y'),
('3','soluta','y'),
('4','sed','n'),
('5','explicabo','y'),
('6','beatae','n'),
('7','aliquid','y'),
('8','ea','n'),
('9','porro','y'),
('10','ratione','n'),
('11','eligendi','y'),
('12','maxime','y'),
('13','quod','y'),
('14','voluptates','y'),
('15','consequuntur','n'),
('16','eius','y'),
('17','illum','y'),
('18','adipisci','n'),
('19','aut','y'),
('20','dicta','n'),
('21','eligendi','y'),
('22','praesentium','y'),
('23','quis','y'),
('24','sit','n'),
```

```
('25','ut','n'),
('26','qui','n'),
('27','quasi','n'),
('28','vero','y'),
('29','sint','n'),
('30','maxime','y'),
('31','sint','n'),
('32','voluptatem','n'),
('33','iste','n'),
('34','delectus','n'),
('35','illo','n'),
('36','itaque','y'),
('37','sed','y'),
('38','quia','y'),
('39','adipisci','y'),
('40','voluptatum','y'),
('41','tempora','n'),
('42','a','n'),
('43','hic','n'),
('44','velit','n'),
('45','aut','n'),
('46','est','n'),
('47','tempore','n'),
('48','sed','n'),
('49','ab','y'),
('50','omnis','n'),
('51','recusandae','n'),
('52','est','n'),
('53','a','y'),
('54','explicabo','y'),
('55','molestiae','n'),
('56','voluptatibus','y'),
('57','possimus','n'),
('58','nulla','y'),
('59','eveniet','y'),
('60','nisi','n'),
('61','assumenda','y'),
('62','doloremque','y'),
('63','modi','y'),
('64','numquam','y'),
('65','aut','y'),
('66','earum','n'),
('67','necessitatibus','y'),
('68','hic','y'),
('69','asperiores','n'),
('70','similique','y'),
('71','voluptates','n'),
('72','qui','y'),
('73','est','n'),
('74','odit','y'),
('75','repudiandae','y'),
('76','minus','n'),
('77','rem','n'),
('78','ullam','n'),
('79','corrupti','n'),
('80','quo','y'),
('81','non','n'),
('82','voluptas','y'),
('83','dolorum','n'),
('84','soluta','n'),
('85','magnam','y'),
('86','eius','y'),
('87','deserunt','n'),
```

```sql
  ('88','debitis','y'),
  ('89','sit','n'),
  ('90','occaecati','n'),
  ('91','delectus','n'),
  ('92','et','n'),
  ('93','autem','y'),
  ('94','perferendis','n'),
  ('95','eos','n'),
  ('96','voluptates','n'),
  ('97','magnam','n'),
  ('98','occaecati','n'),
  ('99','voluptas','y'),
  ('100','quis','y');


DROP TABLE IF EXISTS `genre`;
CREATE TABLE `genre` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `name_id` bigint(20) unsigned NOT NULL,
  `name` varchar(256) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `name_id` (`name_id`),
  CONSTRAINT `genre_ibfk_1` FOREIGN KEY (`name_id`) REFERENCES `films` (`id`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `genre` VALUES ('1','1','consequuntur'),
  ('2','2','cumque'),
  ('3','3','sapiente'),
  ('4','4','eius'),
  ('5','5','quia'),
  ('6','6','minima'),
  ('7','7','dignissimos'),
  ('8','8','illo'),
  ('9','9','temporibus'),
  ('10','10','rerum'),
  ('11','11','nihil'),
  ('12','12','dolor'),
  ('13','13','ut'),
  ('14','14','blanditiis'),
  ('15','15','facere'),
  ('16','16','consequatur'),
  ('17','17','voluptas'),
  ('18','18','ad'),
  ('19','19','autem'),
  ('20','20','veniam'),
  ('21','21','eos'),
  ('22','22','dolores'),
  ('23','23','reprehenderit'),
  ('24','24','ex'),
  ('25','25','quas'),
  ('26','26','omnis'),
  ('27','27','quia'),
  ('28','28','saepe'),
  ('29','29','dolor'),
  ('30','30','recusandae'),
  ('31','31','eos'),
  ('32','32','omnis'),
  ('33','33','itaque'),
  ('34','34','eius'),
  ('35','35','molestias'),
  ('36','36','et'),
```

```
('37','37','illum'),
('38','38','excepturi'),
('39','39','ut'),
('40','40','quisquam'),
('41','41','molestiae'),
('42','42','labore'),
('43','43','accusantium'),
('44','44','enim'),
('45','45','omnis'),
('46','46','nemo'),
('47','47','aliquam'),
('48','48','numquam'),
('49','49','quos'),
('50','50','inventore'),
('51','51','enim'),
('52','52','et'),
('53','53','sint'),
('54','54','corporis'),
('55','55','voluptates'),
('56','56','laudantium'),
('57','57','sit'),
('58','58','atque'),
('59','59','reprehenderit'),
('60','60','ipsum'),
('61','61','perspiciatis'),
('62','62','dolor'),
('63','63','laudantium'),
('64','64','illum'),
('65','65','asperiores'),
('66','66','voluptatem'),
('67','67','dolores'),
('68','68','architecto'),
('69','69','non'),
('70','70','a'),
('71','71','est'),
('72','72','adipisci'),
('73','73','quam'),
('74','74','expedita'),
('75','75','officia'),
('76','76','vel'),
('77','77','nisi'),
('78','78','est'),
('79','79','cupiditate'),
('80','80','provident'),
('81','81','excepturi'),
('82','82','modi'),
('83','83','quisquam'),
('84','84','debitis'),
('85','85','necessitatibus'),
('86','86','quidem'),
('87','87','nulla'),
('88','88','consequuntur'),
('89','89','nam'),
('90','90','delectus'),
('91','91','natus'),
('92','92','nobis'),
('93','93','saepe'),
('94','94','itaque'),
('95','95','doloribus'),
('96','96','repudiandae'),
('97','97','vel'),
('98','98','eius'),
('99','99','at'),
```

```sql
('100','100','est');


DROP TABLE IF EXISTS `inf_about_users`;
CREATE TABLE `inf_about_users` (
  `inf_about_users_id` bigint(20) unsigned NOT NULL,
  `firstname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `lastname` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  `year_of_birth` int(10) DEFAULT NULL,
  `nationality` char(3) COLLATE utf8_unicode_ci DEFAULT NULL,
  `country` varchar(100) COLLATE utf8_unicode_ci DEFAULT NULL,
  KEY `inf_about_users_id` (`inf_about_users_id`),
  CONSTRAINT `inf_about_users_ibfk_1` FOREIGN KEY (`inf_about_users_id`)
REFERENCES `users` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

INSERT INTO `inf_about_users` VALUES
('1','Rogelio','Spinka','1972','USA','SWD'),
('2','Filomena','McKenzie','1975','IT','KZ'),
('3','Lorenz','Von','1989','IT','IT'),
('4','Daryl','O\'Hara','1989','USA','USA'),
('5','Wade','Lehner','1982','FRA','FRA'),
('6','Arvid','Runolfsson','2016','RUS','KZ'),
('7','Natalia','Tremblay','1996','USA','RUS'),
('8','Selena','Howe','1977','RUS','IT'),
('9','Cristina','O\'Kon','1986','RUS','KZ'),
('10','Kareem','Cremin','2014','CH','FRA'),
('11','Mazie','Reilly','2012','CH','SWD'),
('12','Ozella','Carroll','1998','CH','IT'),
('13','Damaris','Macejkovic','2011','ENG','IT'),
('14','Ole','Barrows','1989','FRA','SWD'),
('15','Reginald','Nienow','2003','FRA','ENG'),
('16','Lavonne','Crona','1974','KZ','KZ'),
('17','Armani','Weissnat','2011','CH','IT'),
('18','Easter','Bahringer','1991','FRA','KZ'),
('19','Clemmie','Cormier','1984','IT','FRA'),
('20','Christine','Okuneva','1978','SWD','USA'),
('21','Elissa','Bartoletti','1977','ENG','KZ'),
('22','Graciela','Gutkowski','2019','IT','RUS'),
('23','Rex','Towne','1984','CH','IT'),
('24','Adrien','Kutch','1999','FRA','CH'),
('25','Herbert','Nader','2019','SWD','FRA'),
('26','Modesto','Stark','1989','RUS','IT'),
('27','Eda','Skiles','2019','FRA','ENG'),
('28','Gregoria','Grant','1970','ENG','ENG'),
('29','Emma','Gleichner','2015','USA','CH'),
('30','Pearl','Gulgowski','2005','IT','CH'),
('31','Andy','Yundt','1982','CH','RUS'),
('32','Jacques','Moen','2009','CH','RUS'),
('33','Kira','Conroy','1997','IT','KZ'),
('34','Ellie','Murazik','1988','ENG','USA'),
('35','Alec','Brakus','2006','ENG','SWD'),
('36','Ruth','Carroll','1994','FRA','RUS'),
('37','Grant','McLaughlin','1990','ENG','IT'),
('38','Scottie','Schimmel','1990','RUS','CH'),
('39','Maymie','Beatty','1971','RUS','RUS'),
('40','Etha','Schimmel','2014','ENG','USA'),
('41','Grayson','Crist','2017','IT','ENG'),
('42','Blanca','Gaylord','2012','IT','RUS'),
('43','Maurice','Blanda','2015','USA','RUS'),
('44','Collin','Kub','2018','CH','KZ'),
('45','Angus','Brakus','2011','SWD','KZ'),
('46','Monserrat','Spencer','2017','ENG','FRA'),
```

```sql
('47','Charlotte','Morar','2015','RUS','FRA'),
('48','Carolanne','Schaden','1985','ENG','FRA'),
('49','Ferne','Reichert','1970','IT','ENG'),
('50','Peggie','West','1994','KZ','KZ'),
('51','Hannah','Willms','1985','RUS','FRA'),
('52','Danika','Bergnaum','2011','SWD','IT'),
('53','Ida','Haag','1976','FRA','FRA'),
('54','Ellsworth','Schneider','2013','ENG','CH'),
('55','Wilma','Nitzsche','1979','SWD','ENG'),
('56','Mario','Williamson','1972','KZ','IT'),
('57','Damien','Homenick','1980','FRA','ENG'),
('58','Hannah','Romaguera','2002','IT','KZ'),
('59','Elijah','Oberbrunner','1970','RUS','USA'),
('60','Antonietta','Moore','2008','SWD','SWD'),
('61','Alexane','Dietrich','2017','USA','IT'),
('62','Peter','Rau','1991','ENG','KZ'),
('63','Abner','Kunze','1988','SWD','USA'),
('64','Briana','Mills','2012','ENG','ENG'),
('65','May','Cronin','1970','USA','SWD'),
('66','Dedric','Fahey','2012','RUS','FRA'),
('67','Vernie','Kerluke','1991','CH','IT'),
('68','Paxton','Ledner','2009','RUS','USA'),
('69','Leonardo','Hettinger','1975','ENG','USA'),
('70','Davonte','O\'Reilly','1978','IT','USA'),
('71','Halle','Klein','1992','USA','IT'),
('72','Kimberly','Hilll','1976','IT','FRA'),
('73','Elda','Eichmann','1982','FRA','SWD'),
('74','Amy','Spinka','1984','FRA','ENG'),
('75','Wade','Luettgen','2009','ENG','CH'),
('76','Maeve','Dibbert','1982','ENG','RUS'),
('77','Marc','Waters','1993','ENG','USA'),
('78','Paris','Herman','1994','CH','RUS'),
('79','Macey','Okuneva','2000','FRA','SWD'),
('80','Kira','Rogahn','1974','RUS','FRA'),
('81','Burley','McCullough','1992','IT','ENG'),
('82','Giovanny','Dare','2011','RUS','FRA'),
('83','Alan','Gottlieb','1989','SWD','KZ'),
('84','Josefina','Cummings','1980','RUS','SWD'),
('85','Myles','Fahey','1971','FRA','RUS'),
('86','Devon','Bernier','2000','ENG','ENG'),
('87','Greyson','Ondricka','1984','KZ','IT'),
('88','Orin','Stehr','2000','FRA','SWD'),
('89','Lizzie','Toy','2002','RUS','KZ'),
('90','Priscilla','Rosenbaum','2000','KZ','CH'),
('91','Christina','Conn','1988','FRA','CH'),
('92','Lizzie','Haag','1999','USA','CH'),
('93','Hallie','Schmeler','1976','USA','SWD'),
('94','Dejon','Jacobi','1979','KZ','SWD'),
('95','Misael','Abshire','1988','KZ','SWD'),
('96','Madyson','Frami','1977','SWD','KZ'),
('97','Emmalee','Windler','1982','RUS','SWD'),
('98','Crystal','Schamberger','2002','IT','USA'),
('99','Dedric','Wyman','1984','RUS','ENG'),
('100','Newell','Nader','1979','SWD','KZ');


DROP TABLE IF EXISTS `rating`;
CREATE TABLE `rating` (
  `rating_id` bigint(20) unsigned NOT NULL,
  `stars` int(2) DEFAULT NULL,
  KEY `rating_id` (`rating_id`),
  CONSTRAINT `rating_ibfk_1` FOREIGN KEY (`rating_id`) REFERENCES `films`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
```

```sql
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

INSERT INTO `rating` VALUES ('1','3'),
('2','8'),
('3','3'),
('4','8'),
('5','9'),
('6','1'),
('7','3'),
('8','8'),
('9','9'),
('10','3'),
('11','5'),
('12','8'),
('13','10'),
('14','4'),
('15','2'),
('16','2'),
('17','9'),
('18','9'),
('19','1'),
('20','3'),
('21','6'),
('22','9'),
('23','2'),
('24','3'),
('25','1'),
('26','3'),
('27','1'),
('28','4'),
('29','10'),
('30','2'),
('31','1'),
('32','6'),
('33','2'),
('34','5'),
('35','4'),
('36','3'),
('37','9'),
('38','7'),
('39','9'),
('40','6'),
('41','1'),
('42','9'),
('43','7'),
('44','9'),
('45','10'),
('46','3'),
('47','2'),
('48','7'),
('49','5'),
('50','6'),
('51','10'),
('52','3'),
('53','10'),
('54','9'),
('55','5'),
('56','9'),
('57','10'),
('58','7'),
('59','5'),
('60','5'),
('61','10'),
```

```sql
('62','8'),
('63','3'),
('64','1'),
('65','9'),
('66','5'),
('67','6'),
('68','8'),
('69','10'),
('70','3'),
('71','1'),
('72','2'),
('73','1'),
('74','7'),
('75','5'),
('76','3'),
('77','6'),
('78','8'),
('79','3'),
('80','1'),
('81','8'),
('82','10'),
('83','10'),
('84','7'),
('85','3'),
('86','8'),
('87','7'),
('88','4'),
('89','9'),
('90','5'),
('91','10'),
('92','2'),
('93','1'),
('94','1'),
('95','6'),
('96','3'),
('97','7'),
('98','6'),
('99','6'),
('100','4');


DROP TABLE IF EXISTS `users`;
CREATE TABLE `users` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `users_log` varchar(250) COLLATE utf8_unicode_ci DEFAULT NULL,
  `users_password` varchar(250) COLLATE utf8_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=101 DEFAULT CHARSET=utf8
COLLATE=utf8_unicode_ci;

INSERT INTO `users` VALUES
('1','nihil','a31a57c5a7b6a9946e48dcb694c0a7a60b84be78'),
('2','sed','ca2c1824cca45f9a750d93a4cb65a3cf50fbfa80'),
('3','porro','a80b12091cdde2f55b12eb9db79770cceea1cca8'),
('4','iusto','d7c8041e06cf369eca0e20ad324ab8b92f381d43'),
('5','repudiandae','b2c0f44cf24ddbdecb3ab831082a9e04b2b6db74'),
('6','aut','a771de07a61dcb4c6cd5723bfcae6d6c82a8bb44'),
('7','cumque','c5b4e89c9070b62a2a4354765dfd41970a5447d2'),
('8','in','e0c3165cbe549b0bd62f93cc7cbcecb955c61a8a'),
('9','eos','1d162435564da8af84632094015d0216c69c46b7'),
('10','consequatur','d88de221e38b544f86a96697fa0debccd10a5883'),
('11','et','009831f4ac90237c5f1d6f303c2b76e58a49489f'),
('12','rerum','9a2349b6d2f5da11ee551c7d512c6a08552b52d7'),
```

```
('13','molestiae','4713ca07024764987b18383f9e5dd82fe80e1501'),
('14','dolores','14898a3d981e7697535c304aa15125368eed3f70'),
('15','reprehenderit','535f5ce6e30781081851b518e327bf29c9e68299'),
('16','aut','bdc2678356db282d273c59e9c23228fd9ca2237c'),
('17','sed','9af0c0cf95c8767ef235c4b7f3f24bd7baa44038'),
('18','beatae','2d838c0114b30983d38bf798f82a1cf381817d3b'),
('19','quidem','06565b183ef56ddea37a6efdd56e5e2f39aafd5a'),
('20','sint','a3e60d767ff35e6c27deb5e5da61fa5055cb87bb'),
('21','consequatur','03f707039db10e356a5a53c7a2820fd9b1b26b44'),
('22','repellat','675592e7c9efb9f94181e066db94c2850bfcc97e'),
('23','sit','f16d4d3e7b10aab2fb2feb765486d19141b4931a'),
('24','est','9bc6a600333e08e82d1fb6026d6e93e0cc799f38'),
('25','aliquid','6c74004afbd8ba7a4ab30341fcf1415ebb0db3e2'),
('26','recusandae','6478e7917a961ffab1a7ecd2c7a068d7f9d66499'),
('27','modi','0ea309653bb780e680b649c0f63aa0a2538e196d'),
('28','officiis','f79b87a5ff275e5730882d111d10fa3e33dd9ddf'),
('29','in','870e3a76aa1249efe1d62eb415b7868db1c5e832'),
('30','officia','209d77e3ba264ae1924c8c3b60a761f29719c63a'),
('31','et','f86a7053867f787acf4f62d59636f6714f498f63'),
('32','dolores','d0e31596781779144c21e5b06b7aa45c03960d6b'),
('33','dolores','c76cac34a74dcea82e0aa106f78c79105c92d2de'),
('34','ducimus','903b5e053a2781fa470e5c9f729bb933c5d83c51'),
('35','nesciunt','149ee7964a0309d2d13a981cfb54376f7d8ad0b8'),
('36','architecto','056d90613d6a051718d2c3f83aa1a7ff06f4b0c2'),
('37','harum','6fa266f1b87d85a4df0648102dbd3fab880ec69a'),
('38','quidem','dd8296bf0f3e3af9dd0b1d772f93db8ac55c70e2'),
('39','dolor','eeb1fa16e8e8f419e4e33cfab485e3e89d62197e'),
('40','blanditiis','87206f14c19004dc2fc42e0185ff7745e902e153'),
('41','ut','e2715dc0f4d66386dbf2198bc8908ac6502e5715'),
('42','veritatis','0fc6824daa93a4885a5b73a163dd52afa6f0669f'),
('43','ut','07ee0230deb929f06f457fa36497440dd8aa868e'),
('44','tempore','e85e2efe4122a0748b6f9f7457a2f97734c87ab9'),
('45','qui','affee85aafea62e9e4e513eab7271bd79cdecfb8'),
('46','vel','0e8afed9ef76827517ecdba1bb729013871ef9f4'),
('47','assumenda','5d23de8243960d912279f32984d7440e20ced937'),
('48','blanditiis','aaada6b57e1d4ccbe18ef08a9d5dd8473facfa88'),
('49','porro','b5858a5cdeb1101b6f28b26ddc7dceac8553dd4a'),
('50','laborum','d2e1d7b7173384be3361e666ab6789bf962a6078'),
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('55','provident','2d52255759db36bd21e56ef345acb9466cc42944'),
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('57','nostrum','89c5a6ce9037940d16d3602f1dff078c382e2c24'),
('58','id','90c3b428e73386c6bd1a15bbd8a16fad585268f0'),
('59','dolore','10a5c48f839ffb317b53bd10a72cedd94fbab897'),
('60','cupiditate','19674e677827abec17730b738d6f3b0c7d58591c'),
('61','at','e414e5c69fef458f8c7fc4be861c994a3d7f1eb1'),
('62','pariatur','43a23c02ff6b03323083debc76d8d57fcc08c666'),
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('65','eum','b8b276c39b0e87064bf7db334e93451c017dd7da'),
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('67','rerum','8ced94b4c5c0d851bc6d5e441b51bd01ca965b4e'),
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('69','et','6177cbc9a5ef7f98d708cfaa0c73a0253ff42a27'),
('70','et','9404d79a00641cd43abc76dea3beebc83a47b8ed'),
('71','autem','de622a05f604a22c185aa4b68d6ad9e658a6d477'),
('72','veritatis','4d111e20875fb0942e2767d5ab44b7990bff0e92'),
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('74','ratione','fc0922f14ec2a4f573ea1a3b9831704f690c41d7'),
('75','repellat','ab13579878502fa4515088b8f6ea323e9e4c49ca'),
```

```sql
  ('76','nihil','6ccea85ddaee1e438e8cca6880768c079e689561'),
  ('77','est','f39b586d9d241654e7226c83d8062464da22f0de'),
  ('78','quam','26a3fe41f7fccf2f17408aa4b895360dbc3887c4'),
  ('79','voluptatum','ff2d9a8cd87b1f072f8f5ff6224977ff390866f7'),
  ('80','omnis','8f993f3453d89f95eaa0643eb19ffaaa6fcb7e44'),
  ('81','voluptas','64e583dd479600ee3fe7d1bb80a2a9e80cb70882'),
  ('82','deleniti','a2fb302e9d584986653da43d9ffe8ba0742572bb'),
  ('83','cumque','3f5797eee3cc58c185113fea2818a455c11f3934'),
  ('84','nostrum','bc8e80b596f6f5d8e36a46f715d2551a24a21b68'),
  ('85','autem','27b1168f92129c0f73a29c452c2c3e6fdcb46dd4'),
  ('86','et','625851175f3bee2d030aa2618e887fe85e30d0bd'),
  ('87','ut','af19c6eef2be193e2b6a0a218fcde8c5829f1448'),
  ('88','libero','aef205b48cafc6a9a54cb143740ce2d4a7581bf4'),
  ('89','voluptatem','40ecaa22678eb75c6ceb619b8cc022ef40c49638'),
  ('90','quisquam','69dd2d4344a9deeb623dbc4cd017b530f632d497'),
  ('91','illum','1e641800132cefea06de8ede3264e3a6fd7f3008'),
  ('92','magnam','95e1606f8c7af953fe66204b9d45e0673d2d1f8e'),
  ('93','qui','471e71a06a313fde96e718d320245e5940e4a90d'),
  ('94','cumque','383d0332cc3a4d46bb6e3245df265459ce21b8c8'),
  ('95','voluptatem','aa28ed4c66020dcd94d36d67bf4e8c79383d6eae'),
  ('96','sapiente','9f8089d1e13044122a65de53463be16ab01032f2'),
  ('97','qui','ac755f42756138a16d31ff065e5c6fb0c2cc2f92'),
  ('98','dolorem','7119172df28b18a28eb1371cae0a8ec80f2b0348'),
  ('99','earum','912377fe26dcf130a0fbb714703fb403f61d7430'),
  ('100','alias','ce5b840637ff7540139f2281261a45a7731c3345');


DROP TABLE IF EXISTS `users_to_films`;
CREATE TABLE `users_to_films` (
  `user_id` bigint(20) unsigned NOT NULL,
  `film_id` bigint(20) unsigned NOT NULL,
  KEY `user_id` (`user_id`),
  KEY `film_id` (`film_id`),
  CONSTRAINT `users_to_films_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES
`users` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `users_to_films_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES
`films` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

INSERT INTO `users_to_films` VALUES ('1','1'),
  ('2','2'),
  ('3','3'),
  ('4','4'),
  ('5','5'),
  ('6','6'),
  ('7','7'),
  ('8','8'),
  ('9','9'),
  ('10','10'),
  ('11','11'),
  ('12','12'),
  ('13','13'),
  ('14','14'),
  ('15','15'),
  ('16','16'),
  ('17','17'),
  ('18','18'),
  ('19','19'),
  ('20','20'),
  ('21','21'),
  ('22','22'),
  ('23','23'),
  ('24','24'),
```

```
('25','25'),
('26','26'),
('27','27'),
('28','28'),
('29','29'),
('30','30'),
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('32','32'),
('33','33'),
('34','34'),
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('37','37'),
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('80','80'),
('81','81'),
('82','82'),
('83','83'),
('84','84'),
('85','85'),
('86','86'),
('87','87'),
```

```sql
('88','88'),
('89','89'),
('90','90'),
('91','91'),
('92','92'),
('93','93'),
('94','94'),
('95','95'),
('96','96'),
('97','97'),
('98','98'),
('99','99'),
('100','100');

SELECT nationality, COUNT(*) FROM inf_about_users GROUP BY nationality ORDER
BY nationality;
SELECT nationality, COUNT(*) FROM actors GROUP BY nationality ORDER BY
nationality;
SELECT nationality, COUNT(*) FROM film_director GROUP BY nationality ORDER BY
nationality;

SELECT 2020 - year_of_birth AGE, COUNT(*) FROM inf_about_users GROUP BY
year_of_birth ORDER BY year_of_birth;

DROP VIEW IF EXISTS movies;
CREATE VIEW movies AS
SELECT
      films.name NAME,
      fc.years YEARS,
      fc.budget BUDGET,
      CONCAT(dir.firstname, ' ', dir.lastname) DIRECTOR,
      CONCAT(actors.firstname, ' ', actors.lastname) ACTOR,
      rating.stars STARS,
      company.name COMPANY
FROM films
JOIN film_characteristics fc ON fc.film_id = films.id
JOIN rating ON rating.rating_id = films.id
JOIN company ON company.company_id = films.id
JOIN directors_to_films dtf ON dtf.film_id = films.id
JOIN film_director dir ON dir.id = dtf.director_id
JOIN actors_to_films atf ON atf.film_id = films.id
JOIN actors ON actors.id = atf.actor_id
WHERE films.is_series = 'n';

DROP VIEW IF EXISTS series;
CREATE VIEW series AS
SELECT
      films.name NAME,
      fc.years YEARS,
      fc.budget BUDGET,
      CONCAT(dir.firstname, ' ', dir.lastname) DIRECTOR,
      CONCAT(actors.firstname, ' ', actors.lastname) ACTOR,
      rating.stars STARS,
      company.name COMPANY
FROM films
JOIN film_characteristics fc ON fc.film_id = films.id
JOIN rating ON rating.rating_id = films.id
JOIN company ON company.company_id = films.id
JOIN directors_to_films dtf ON dtf.film_id = films.id
JOIN film_director dir ON dir.id = dtf.director_id
JOIN actors_to_films atf ON atf.film_id = films.id
JOIN actors ON actors.id = atf.actor_id
WHERE films.is_series = 'y';
```

```sql
DROP VIEW IF EXISTS users_info;
CREATE VIEW users_info AS
SELECT
      users.users_log LOGIN,
      CONCAT (inf_about_users.firstname,' ',inf_about_users.lastname) PERSON,
      inf_about_users.country COUNTRY,
      inf_about_users.year_of_birth `YEAR OF BIRTH`,
      inf_about_users.nationality NATIONALITY
FROM users
JOIN inf_about_users ON inf_about_users.inf_about_users_id = users.id;


DELIMITER //
DROP PROCEDURE IF EXISTS number_of_good_films//
CREATE PROCEDURE number_of_good_films(INOUT value INT)
BEGIN
  SELECT COUNT(*) INTO value FROM movies WHERE stars >= value;
END//
SET @number = 5//
CALL number_of_good_films(@number)//
SELECT @number//

DROP PROCEDURE IF EXISTS number_of_bad_series//
CREATE PROCEDURE number_of_bad_series (INOUT value INT)
BEGIN
  SELECT COUNT(*) INTO value FROM series WHERE stars <= value;
END//
SET @number = 5//
CALL number_of_bad_series(@number)//
SELECT @number//
DELIMITER ;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```