

COMP1044 Coursework Assignment 2

Report B

Group 15 / Chew Language

Leong Chang Yung, 20307078
Lucas Dylan Purnell, 20197316 Tan Zhun Xian, 20313854
Chong Hao Wei, 20194465 Morhaf Allababidi, 20195867
Thomas Tan Kean Yew, 20316601

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1 Entity Relation Diagram

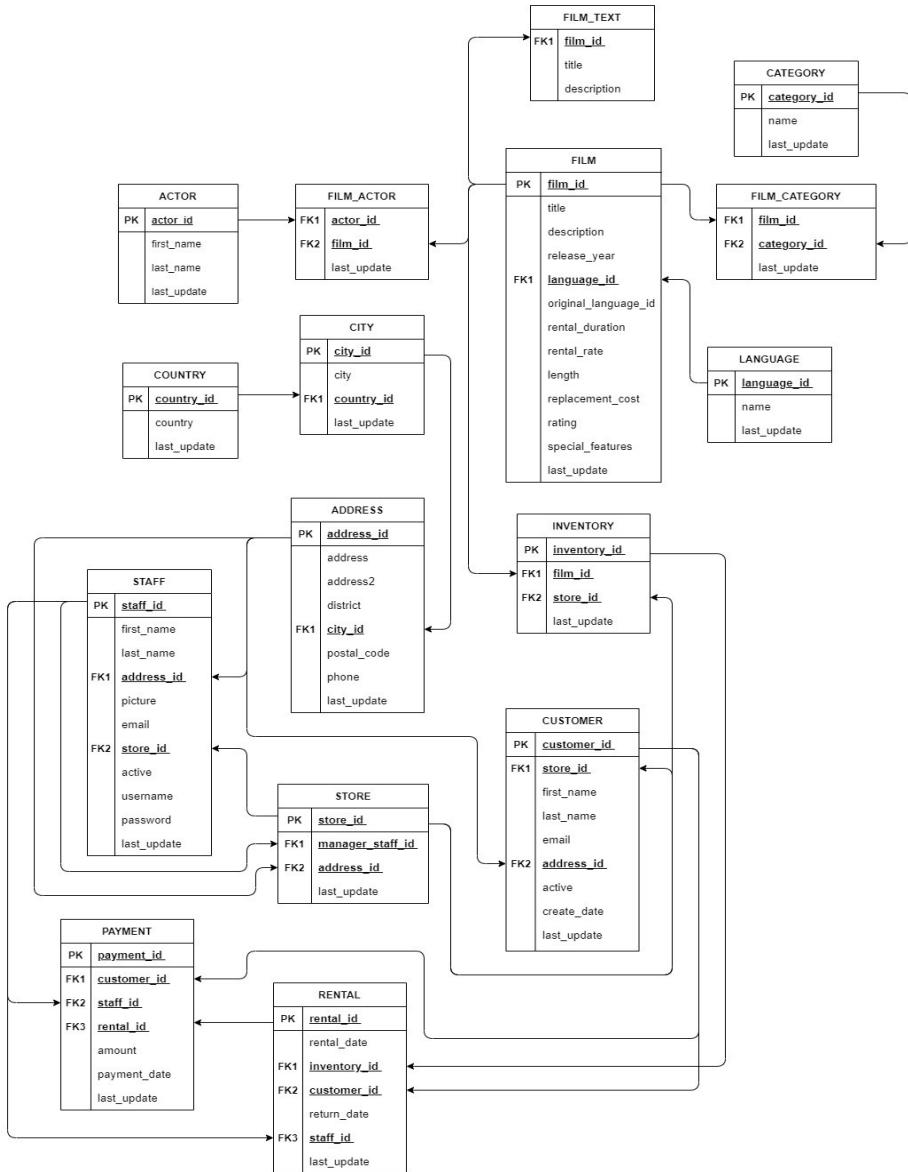


Figure 1: Proposed Entity Relation Diagram arrangement.¹

¹This diagram is based on available table data provided.

2 Database Creation

```
1 CREATE DATABASE Entertainment;
```

Figure 2: Creation of database "Entertainment"

3 Creation and Insertion of Tables

```
1 CREATE TABLE `actor` (
2   `actor_id` int(3) NOT NULL,
3   `first_name` varchar(11) DEFAULT NULL,
4   `last_name` varchar(12) DEFAULT NULL,
5   `last_update` datetime DEFAULT NULL
6 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
7
8 /**
9  * Dumping data for table `actor`
10 */
11
12 INSERT INTO `actor` (`actor_id`, `first_name`, `last_name`, `last_update`) VALUES
13 (1, 'PENELOPE', 'GUINNESS', '2006-02-15 04:34:33'),
14 (2, 'NICK', 'WAHLBERG', '2006-02-15 04:34:33'),
15 (3, 'ED', 'CHASE', '2006-02-15 04:34:33'),
16 (4, 'JENNIFER', 'DAVIS', '2006-02-15 04:34:33'),
17 (5, 'BETTY', 'LAURENTINE', '2006-02-15 04:34:33'),
18 (6, 'BERTIE', 'NICHOLSON', '2006-02-15 04:34:33'),
19 (7, 'GRACE', 'MOTZEL', '2006-02-15 04:34:33'),
20 (8, 'MATTHEW', 'JOHANSSON', '2006-02-15 04:34:33'),
21 (9, 'JOE', 'SWANK', '2006-02-15 04:34:33'),
22 (10, 'CHRISTIAN', 'GABLE', '2006-02-15 04:34:33'),
23 (11, 'ZERO', 'CASE', '2006-02-15 04:34:33'),
24 (12, 'KATE', 'BERRY', '2006-02-15 04:34:33');
```

Figure 3: Creation and Insertion of table "Actor"

```
1 CREATE TABLE `address` (
2   `address_id` int(10) unsigned NOT NULL,
3   `address` varchar(45) DEFAULT NULL,
4   `address2` varchar(10) DEFAULT NULL,
5   `district` varchar(20) DEFAULT NULL,
6   `city_id` int(3) DEFAULT NULL,
7   `postal_code` mediumint(5) DEFAULT NULL,
8   `phone` bigint(12) DEFAULT NULL,
9   `last_update` datetime DEFAULT NULL
10 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
11
12 /**
13  * Dumping data for table `address`
14 */
15
16 INSERT INTO `address` (`address_id`, `address`, `address2`, `district`, `city_id`, `postal_code`, `phone`, `last_update`) VALUES
17 (1, '47 Myakka Drive', '', 'Alberta', 300, NULL, '2014-09-25 22:30:27'),
18 (2, '28 Myakka Boulevard', '', 'QD', 576, NULL, NULL, '2014-09-25 22:30:09'),
19 (3, '1411 Lillydale Drive', '', 'Alberta', 300, NULL, 1403335568, '2014-09-25 22:30:27'),
20 (4, '1411 Lillydale Drive', 'QD', 576, NULL, 6372235589, '2014-09-25 22:30:09'),
21 (5, '1121 Joliet Avenue', 'Key', 463, 52020, 2835555555, '2014-09-25 22:31:09'),
22 (6, '1121 Joliet Avenue', 'California', 449, 1398, 8388350000, '2014-09-25 22:31:01'),
23 (7, '992 Joliet Street', 'Atika', 38, 83579, 446477000000, '2014-09-25 22:31:07'),
24 (8, '1566 Ingle Manor', 'Mandalay', 349, 53561, 705814000000, '2014-09-25 22:32:18');
```

Figure 4: Creation and Insertion of table "Address"

```

1 CREATE TABLE `category` (
2   `category_id` int(11) NOT NULL,
3   `name` varchar(11) DEFAULT NULL,
4   `last_update` datetime DEFAULT NULL
5 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
6
7 --
8 -- Dumping data for table `category`
9 --
10
11 INSERT INTO `category` (`category_id`, `name`, `last_update`) VALUES
12 (1, 'Action', '2006-02-15 04:46:27'),
13 (2, 'Animation', '2006-02-15 04:46:27'),
14 (3, 'Comics', '2006-02-15 04:46:27'),
15 (4, 'Classics', '2006-02-15 04:46:27'),
16 (5, 'Comedy', '2006-02-15 04:46:27'),
17 (6, 'Documentary', '2006-02-15 04:46:27'),
18 (7, 'Drama', '2006-02-15 04:46:27'),
19 (8, 'Family', '2006-02-15 04:46:27'),
20 (9, 'Thriller', '2006-02-15 04:46:27'),
21 (10, 'Game', '2006-02-15 04:46:27'),
22 (11, 'Horror', '2006-02-15 04:46:27'),
23 (12, 'Music', '2006-02-15 04:46:27'),
24 (13, 'New', '2006-02-15 04:46:27'),
25 (14, 'Sci-Fi', '2006-02-15 04:46:27'),
26 (15, 'Sports', '2006-02-15 04:46:27'),
27 (16, 'Travel', '2006-02-15 04:46:27');

```

Figure 5: Creation and Insertion of table "Category"

```

1 CREATE TABLE `city` (
2   `city_id` int(3) NOT NULL,
3   `city` varchar(24) DEFAULT NULL,
4   `country_id` int(3) DEFAULT NULL,
5   `last_update` datetime DEFAULT NULL
6 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
7
8 --
9 -- Dumping data for table `city`
10 --
11
12 INSERT INTO `city` (`city_id`, `city`, `country_id`, `last_update`) VALUES
13 (1, 'A Corua (La Corua)', 87, '2006-02-15 04:45:25'),
14 (2, 'Abha', 82, '2006-02-15 04:45:25'),
15 (3, 'Abu Dhabi', 101, '2006-02-15 04:45:25'),
16 (4, 'Acua', 60, '2006-02-15 04:45:25'),
17 (5, 'Adana', 97, '2006-02-15 04:45:25'),
18 (6, 'Aden', 31, '2006-02-15 04:45:25'),
19 (7, 'Aden', 107, '2006-02-15 04:45:25'),
20 (8, 'Adoni', 44, '2006-02-15 04:45:25'),
21 (9, 'Ahmednagar', 44, '2006-02-15 04:45:25'),
22 (10, 'Akishima', 50, '2006-02-15 04:45:25'),
23 (11, 'Akron', 103, '2006-02-15 04:45:25'),
24 (12, 'Al-Quds', 103, '2006-02-15 04:45:25'),
25 (13, 'Al-Husayn', 81, '2006-02-15 04:45:25'),
26 (14, 'al-Mannas', 11, '2006-02-15 04:45:25'),
27 (15, 'al-Qudairif', 89, '2006-02-15 04:45:25'),
28 (16, 'al-Qudairif', 82, '2006-02-15 04:45:25').

```

Figure 6: Creation and Insertion of table "City"

```

1 CREATE TABLE `country` (
2   `country_id` int(3) NOT NULL,
3   `country` varchar(36) DEFAULT NULL,
4   `last_update` datetime DEFAULT NULL
5 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
6
7 --
8 -- Dumping data for table `country`
9 --
10
11 INSERT INTO `country` (`country_id`, `country`, `last_update`) VALUES
12 (1, 'Afghanistan', '2006-02-15 04:44:00'),
13 (2, 'Algeria', '2006-02-15 04:44:00'),
14 (3, 'American Samoa', '2006-02-15 04:44:00'),
15 (4, 'Angola', '2006-02-15 04:44:00'),
16 (5, 'Anguilla', '2006-02-15 04:44:00'),
17 (6, 'Argentina', '2006-02-15 04:44:00'),
18 (7, 'Armenia', '2006-02-15 04:44:00'),
19 (8, 'Australia', '2006-02-15 04:44:00'),
20 (9, 'Austria', '2006-02-15 04:44:00'),
21 (10, 'Azerbaijan', '2006-02-15 04:44:00'),
22 (11, 'Bahrain', '2006-02-15 04:44:00'),
23 (12, 'Barbados', '2006-02-15 04:44:00'),
24 (13, 'Belarus', '2006-02-15 04:44:00'),
25 (14, 'Bolivia', '2006-02-15 04:44:00'),
26 (15, 'Brazil', '2006-02-15 04:44:00'),
27 (16, 'Brunel', '2006-02-15 04:44:00'),

```

Figure 7: Creation and Insertion of table "Country"

```

1 CREATE TABLE `customer` (
2   `customer_id` int(3) NOT NULL,
3   `store_id` int(1) DEFAULT NULL,
4   `first_name` varchar(11) DEFAULT NULL,
5   `last_name` varchar(12) DEFAULT NULL,
6   `email` varchar(64) DEFAULT NULL,
7   `address_id` int(3) DEFAULT NULL,
8   `active` int(1) DEFAULT NULL,
9   `create_date` datetime DEFAULT NULL,
10  `last_update` datetime DEFAULT NULL
11 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
12
13 --
14 -- Dumping data for table "customer"
15 --
16
17 INSERT INTO `customer` (`customer_id`, `store_id`, `first_name`, `last_name`, `email`, `address_id`, `active`, `create_date`, `last_update`) VALUES
18 (1, 1, 'MARY', 'SMITH', 'MARY.SMITH@akilacustomer.org', 5, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
19 (2, 1, 'PATRICIA', 'JORDAN', 'PATRICIA.JORDON@akilacustomer.org', 6, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
20 (3, 1, 'ROBERT', 'WILSON', 'ROBERT.WILSON@akilacustomer.org', 7, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
21 (4, 2, 'BARBARA', 'JONES', 'BARBARA.JONES@akilacustomer.org', 8, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
22 (5, 1, 'ELIZABETH', 'BROWN', 'ELIZABETH.BROWN@akilacustomer.org', 9, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
23 (6, 2, 'JENNIFER', 'DAVIS', 'JENNIFER.DAVIS@akilacustomer.org', 10, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
24 (7, 1, 'MARIA', 'MILLER', 'MARIA.MILLER@akilacustomer.org', 11, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
25 (8, 2, 'SUSAN', 'WILSON', 'SUSAN.WILSON@akilacustomer.org', 12, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
26 (9, 2, 'MARGARET', 'MOORE', 'MARGARET.MOORE@akilacustomer.org', 13, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
27 (10, 1, 'DOROTHY', 'TAYLOR', 'DOROTHY.TAYLOR@akilacustomer.org', 14, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20'),
28 (11, 2, 'TOMAS', 'ANDREWS', 'TOMAS.ANDREWS@akilacustomer.org', 15, 1, '2006-02-14 22:04:36', '2006-02-15 04:57:20').

```

Figure 8: Creation and Insertion of table "Customer"

```

1 CREATE TABLE `film` (
2   `film_id` int(4) NOT NULL,
3   `title` varchar(27) DEFAULT NULL,
4   `description` text DEFAULT NULL,
5   `release_year` int(4) DEFAULT NULL,
6   `language_id` int(1) DEFAULT NULL,
7   `original_language_id` varchar(10) DEFAULT NULL,
8   `rental_duration` int(1) DEFAULT NULL,
9   `rental_rate` decimal(3,2) DEFAULT NULL,
10  `length` int(3) DEFAULT NULL,
11  `replacement_cost` decimal(5,2) DEFAULT NULL,
12  `rating` varchar(12) DEFAULT NULL,
13  `special_features` varchar(54) DEFAULT NULL,
14  `last_update` datetime DEFAULT NULL
15 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
16
17 --
18 -- Dumping data for table "film"
19 --
20
21 INSERT INTO `film` (`film_id`, `title`, `description`, `release_year`, `language_id`, `original_language_id`, `rental_duration`, `rental_rate`, `length`, `replacement_cost`, `rating`, `special_features`, `last_update`) VALUES
22 (1, 'ACADEMIC DINOSAUR', 'An Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies', 2006, 1, '6', '0.99', '86', '20.99', 'PG', 'Detailed Description Behind the Scenes', '2006-02-15 05:03:42'),
23 (2, 'THE GOLDMINERS', 'An Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China', 2006, 1, '3', '4.99', '48', '12.99', 'G', 'Trailers,Deleted Scenes', '2004-02-15 05:01:42'),
24 (3, 'ADAPTATION HOLES', 'An Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Baloon Factory', 2006, 1, '7', '2.99', '50', '18.99', 'NC-17', 'Detailed Related Scene', '2006-02-15 05:01:49').

```

Figure 9: Creation and Insertion of table "Film"

```

1 CREATE TABLE `film_actor` (
2   `actor_id` int(3) DEFAULT NULL,
3   `film_id` int(4) DEFAULT NULL,
4   `last_update` datetime DEFAULT NULL
5 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
6
7 --
8 -- Dumping data for table "film_actor"
9 --
10
11 INSERT INTO `film_actor` (`actor_id`, `film_id`, `last_update`) VALUES
12 (1, 1, '2006-02-15 05:05:03'),
13 (1, 23, '2006-02-15 05:05:03'),
14 (1, 25, '2006-02-15 05:05:03'),
15 (1, 106, '2006-02-15 05:05:03'),
16 (1, 108, '2006-02-15 05:05:03'),
17 (1, 166, '2006-02-15 05:05:03'),
18 (1, 277, '2006-02-15 05:05:03'),
19 (1, 361, '2006-02-15 05:05:03'),
20 (1, 438, '2006-02-15 05:05:03'),
21 (1, 499, '2006-02-15 05:05:03'),
22 (1, 500, '2006-02-15 05:05:03'),
23 (1, 569, '2006-02-15 05:05:03'),
24 (1, 605, '2006-02-15 05:05:03'),
25 (1, 635, '2006-02-15 05:05:03'),
26 (1, 749, '2006-02-15 05:05:03'),
27 (1, 832, '2006-02-15 05:05:03'),
28 (1, 919, '2006-02-15 05:05:03').

```

Figure 10: Creation and Insertion of table "Film_Actor"

```

1 CREATE TABLE `film_category` (
2   `film_id` int(4) DEFAULT NULL,
3   `category_id` int(2) DEFAULT NULL,
4   `last_update` datetime DEFAULT NULL
5 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
6
7 --
8 -- Dumping data for table `film_category`
9 --
10
11 INSERT INTO `film_category`(`film_id`, `category_id`, `last_update`) VALUES
12 (1, 6, '2006-02-15 05:07:09'),
13 (2, 11, '2006-02-15 05:07:09'),
14 (3, 1, '2006-02-15 05:07:09'),
15 (4, 11, '2006-02-15 05:07:09'),
16 (5, 8, '2006-02-15 05:07:09'),
17 (6, 9, '2006-02-15 05:07:09'),
18 (7, 5, '2006-02-15 05:07:09'),
19 (8, 11, '2006-02-15 05:07:09'),
20 (9, 1, '2006-02-15 05:07:09'),
21 (10, 15, '2006-02-15 05:07:09'),
22 (11, 9, '2006-02-15 05:07:09'),
23 (12, 12, '2006-02-15 05:07:09'),
24 (13, 11, '2006-02-15 05:07:09'),
25 (14, 4, '2006-02-15 05:07:09'),
26 (15, 9, '2006-02-15 05:07:09'),
27 (16, 9, '2006-02-15 05:07:09'),
28 (17, 12, '2006-02-15 05:07:09'),

```

Figure 11: Creation and Insertion of table "Film_Category"

```

1 CREATE TABLE `film_text` (
2   `film_id` int(4) DEFAULT NULL,
3   `title` varchar(27) DEFAULT NULL,
4   `description` varchar(130) DEFAULT NULL
5 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
6
7 --
8 -- Dumping data for table `film_text`
9 --
10
11 INSERT INTO `film_text`(`film_id`, `title`, `description`) VALUES
12 (1, 'ACADEMY DINOSAUR', 'A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies'),
13 (2, 'ACE GOLDFINGER', 'A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China'),
14 (3, 'ADAPTATION HOLES', 'A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Balloon Factory'),
15 (4, 'AFFAIR PREJUDICE', 'A Fanciful Documentary of a Fribee And a Lumberjack who must Chase a Monkey in A Shark Tank'),
16 (5, 'AFRICAN EGG', 'A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico'),
17 (6, 'ALASKA PHANTOM', 'A Fast-Paced Documentary of a Dentist And a Mad Scientist who must Confront a Pioneer in Ancient China'),
18 (7, 'AIRPLANE SIERRA', 'A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat'),
19 (8, 'AIRPORT POLLOCK', 'A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India'),
20 (9, 'ALABAMA DEVIL', 'A Thoughtful Panorama of a Database Administrator And a Mad Scientist who must Outgun a Mad Scientist in A Jet Boat'),
21 (10, 'ALADDIN CALENDAR', 'A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China'),
22 (11, 'ALAMO VIDEOTAPE', 'A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention'),
23 (12, 'ALASKA PHANTOM', 'A Fanciful Saga of a Dentist And a Mad Scientist who must Confront a Boy in Australia'),
24 (13, 'ALICE FOOLISH', 'A Fast-Paced Documentary of a Dentist And a Mad Scientist who must Battle a Hunter in The Canadian Rockies'),
25 (14, 'ALICE FANTASIA', 'A Emotional Drama of A Shark And a Database Administrator who must Vanquish a Pioneer in Soviet Georgia'),
26 (15, 'ALIEN CENTER', 'A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention'),
27 (16, 'ALLEY EVOLUTION', 'A Fast-Paced Drama of a Robot And a Composer who must Battle a Astronaut in New Orleans'),
28 (17, 'ALONE TRIP', 'A Fast-Paced Character Study of a Connoisseur And a Nun who must Outrun a Wolf in An Abandoned Pen House').

```

Figure 12: Creation and Insertion of table "Film_Text"

```

1 CREATE TABLE `inventory` (
2   `inventory_id` int(4) NOT NULL,
3   `film_id` int(4) DEFAULT NULL,
4   `store_id` int(1) DEFAULT NULL,
5   `last_update` datetime DEFAULT NULL
6 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
7
8 --
9 -- Dumping data for table `inventory`
10 --
11
12 INSERT INTO `inventory`(`inventory_id`, `film_id`, `store_id`, `last_update`) VALUES
13 (1, 1, 1, '2006-02-15 05:09:17'),
14 (2, 1, 1, '2006-02-15 05:09:17'),
15 (3, 1, 1, '2006-02-15 05:09:17'),
16 (4, 1, 1, '2006-02-15 05:09:17'),
17 (5, 1, 1, '2006-02-15 05:09:17'),
18 (6, 1, 2, '2006-02-15 05:09:17'),
19 (7, 1, 2, '2006-02-15 05:09:17'),
20 (8, 1, 2, '2006-02-15 05:09:17'),
21 (9, 2, 3, '2006-02-15 05:09:17'),
22 (10, 2, 3, '2006-02-15 05:09:17'),
23 (11, 2, 2, '2006-02-15 05:09:17'),
24 (12, 3, 2, '2006-02-15 05:09:17'),
25 (13, 3, 2, '2006-02-15 05:09:17'),
26 (14, 3, 2, '2006-02-15 05:09:17'),
27 (15, 3, 2, '2006-02-15 05:09:17'),
28 (16, 2, 1, '2006-02-15 05:09:17'),

```

Figure 13: Creation and Insertion of table "Inventory"

```

1 CREATE TABLE `language` (
2   `language_id` int(10) NOT NULL,
3   `name` varchar(8) DEFAULT NULL,
4   `last_update` datetime DEFAULT NULL
5 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
6
7 --
8 -- Dumping data for table `language`
9 --
10
11 INSERT INTO `language` (`language_id`, `name`, `last_update`) VALUES
12 (1, 'English', '2006-02-15 05:02:19'),
13 (2, 'Italian', '2006-02-15 05:02:19'),
14 (3, 'Japanese', '2006-02-15 05:02:19'),
15 (4, 'Mandarin', '2006-02-15 05:02:19'),
16 (5, 'French', '2006-02-15 05:02:19'),
17 (6, 'German', '2006-02-15 05:02:19');

```

Figure 14: Creation and Insertion of table "Language"

```

1 CREATE TABLE `payment` (
2   `payment_id` int(5) NOT NULL,
3   `customer_id` int(3) DEFAULT NULL,
4   `staff_id` int(1) DEFAULT NULL,
5   `rental_id` int(5) DEFAULT NULL,
6   `amount` decimal(5,2) DEFAULT NULL,
7   `payment_date` datetime DEFAULT NULL,
8   `last_update` datetime DEFAULT NULL
9 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
10
11 --
12 -- Dumping data for table `payment`
13 --
14
15 INSERT INTO `payment` (`payment_id`, `customer_id`, `staff_id`, `rental_id`, `amount`, `payment_date`, `last_update`) VALUES
16 (1, 1, 1, 76, '2.99', '2005-05-25 11:30:37', '2006-02-15 22:12:30'),
17 (2, 1, 1, 573, '0.99', '2005-05-28 10:35:23', '2006-02-15 22:12:30'),
18 (3, 1, 1, 106, '5.99', '2005-05-28 10:35:23', '2006-02-15 22:12:30'),
19 (4, 1, 1, 142, '0.99', '2005-06-15 18:02:53', '2006-02-15 22:12:30'),
20 (5, 1, 2, 1474, '9.99', '2005-06-15 21:08:46', '2006-02-15 22:12:30'),
21 (6, 1, 1, 1725, '4.99', '2005-06-16 15:18:57', '2006-02-15 22:12:30'),
22 (7, 1, 1, 2308, '4.99', '2005-06-18 08:41:48', '2006-02-15 22:12:30'),
23 (8, 1, 2, 2363, '0.99', '2005-06-18 13:33:59', '2006-02-15 22:12:30'),
24 (9, 1, 1, 3284, '3.99', '2005-06-18 06:24:45', '2006-02-15 22:12:30'),
25 (10, 1, 1, 4606, '0.99', '2005-06-19 09:00:01', '2006-02-15 22:12:30'),
26 (11, 1, 1, 4611, '5.99', '2005-07-08 07:33:56', '2006-02-15 22:12:30'),
27 (12, 1, 1, 5244, '4.99', '2005-07-08 13:24:07', '2006-02-15 22:12:30'),
28 (13, 1, 1, 5376, '4.99', '2005-07-09 14:38:01', '2006-02-15 22:12:30'),

```

Figure 15: Creation and Insertion of table "Payment"

```

1 CREATE TABLE `rental` (
2   `rental_id` int(5) NOT NULL,
3   `rental_date` datetime DEFAULT NULL,
4   `inventory_id` int(5) DEFAULT NULL,
5   `customer_id` int(5) DEFAULT NULL,
6   `return_date` datetime DEFAULT NULL,
7   `staff_id` int(1) DEFAULT NULL,
8   `last_update` datetime DEFAULT NULL
9 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
10
11 --
12 -- Dumping data for table `rental`
13 --
14
15 INSERT INTO `rental` (`rental_id`, `rental_date`, `inventory_id`, `customer_id`, `return_date`, `staff_id`, `last_update`) VALUES
16 (1, '2005-05-24 22:53:10', 367, 130, '2005-05-26 22:04:30', 1, '2006-02-15 21:30:53'),
17 (2, '2005-05-24 23:03:39', 368, 130, '2005-05-26 22:04:30', 1, '2006-02-15 21:30:53'),
18 (3, '2005-05-24 23:03:39', 1715, 409, '2005-06-01 22:12:39', 1, '2006-02-15 21:30:53'),
19 (4, '2005-05-24 23:04:41', 2457, 333, '2005-06-03 01:43:41', 2, '2006-02-15 21:30:53'),
20 (5, '2005-05-24 23:05:21', 2079, 222, '2005-06-02 04:33:21', 1, '2006-02-15 21:30:53'),
21 (6, '2005-05-24 23:08:07', 2792, 549, '2005-05-27 01:32:07', 1, '2006-02-15 21:30:53'),
22 (7, '2005-05-24 23:11:53', 3995, 265, '2005-05-29 20:34:53', 2, '2006-02-15 21:30:53'),
23 (8, '2005-05-24 23:11:53', 2346, 239, '2005-05-29 23:33:01', 2, '2006-02-15 21:30:53'),
24 (9, '2005-05-25 00:01:40', 1826, 309, '2005-05-29 23:41:40', 1, '2006-02-15 21:30:53'),
25 (10, '2005-05-25 00:02:21', 1824, 309, '2005-05-31 22:41:21', 2, '2006-02-15 21:30:53'),
26 (11, '2005-05-25 00:19:02', 4442, 142, '2005-06-02 20:56:02', 2, '2006-02-15 21:30:53'),
27 (12, '2005-05-25 00:19:27', 1584, 261, '2005-05-30 05:44:27', 2, '2006-02-15 21:30:53'),
... ----- ... ----- ... ----- ... ----- ... ----- ...

```

Figure 16: Creation and Insertion of table "Rental"

Figure 17: Creation and Insertion of table "Staff"

```
1 CREATE TABLE `store` (
2     `store_id` int(1) NOT NULL,
3     `manager_staff_id` int(1) DEFAULT NULL,
4     `address_id` int(1) DEFAULT NULL,
5     `last_update` datetime DEFAULT NULL,
6 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
7
8 /**
9  * Dumping data for table 'store'
10 */
11
12 INSERT INTO `store` (`store_id`, `manager_staff_id`, `address_id`, `last_update`) VALUES
13 (1, 1, 1, '2006-02-15 04:57:12'),
14 (2, 2, 2, '2006-02-15 04:57:12');
```

Figure 18: Creation and Insertion of table "Store"

4 Table Constraints (Foreign Keys)

```

1  -- Constraints for dumped tables
2  --
3  -- Constraints for table `address`
4  --
5  ALTER TABLE `address`
6  ADD CONSTRAINT `address_ibfk_1` FOREIGN KEY (`city_id`) REFERENCES `city` (`city_id`);
7  --
8  -- Constraints for table `city`
9  --
10 ALTER TABLE `city`
11 ADD CONSTRAINT `city_ibfk_1` FOREIGN KEY (`country_id`) REFERENCES `country` (`country_id`);
12 --
13 --
14 -- Constraints for table `customer`
15 --
16 ALTER TABLE `customer`
17 ADD CONSTRAINT `customer_ibfk_1` FOREIGN KEY (`store_id`) REFERENCES `store` (`store_id`),
18 ADD CONSTRAINT `customer_ibfk_2` FOREIGN KEY (`address_id`) REFERENCES `address` (`address_id`);
19 --
20 --
21 -- Constraints for table `film`
22 --
23 --
24 ALTER TABLE `film`
25 ADD CONSTRAINT `film_ibfk_1` FOREIGN KEY (`language_id`) REFERENCES `language` (`language_id`);
26 --
27 --
28 -- Constraints for table `film_actor`
29 --
30 ALTER TABLE `film_actor`
31 ADD CONSTRAINT `film_actor_ibfk_1` FOREIGN KEY (`actor_id`) REFERENCES `actor` (`actor_id`),
32 ADD CONSTRAINT `film_actor_ibfk_2` FOREIGN KEY (`film_id`) REFERENCES `film` (`film_id`);
33 --
34 --
35 -- Constraints for table `film_category`
36 --
37 ALTER TABLE `film_category`
38 ADD CONSTRAINT `film_category_ibfk_1` FOREIGN KEY (`film_id`) REFERENCES `film` (`film_id`),
39 ADD CONSTRAINT `film_category_ibfk_2` FOREIGN KEY (`category_id`) REFERENCES `category` (`category_id`);
40 --
41 --
42 -- Constraints for table `film_text`
43 --
44 ALTER TABLE `film_text`
45 ADD CONSTRAINT `film_text_ibfk_1` FOREIGN KEY (`film_id`) REFERENCES `film` (`film_id`);
46 --
47 -- Constraints for table `inventory`
48 --
49 --
50 ALTER TABLE `inventory`
51 ADD CONSTRAINT `inventory_ibfk_1` FOREIGN KEY (`film_id`) REFERENCES `film` (`film_id`),
52 ADD CONSTRAINT `inventory_ibfk_2` FOREIGN KEY (`store_id`) REFERENCES `store` (`store_id`);
53 --
54 --
55 -- Constraints for table `payment`
56 --
57 ALTER TABLE `payment`
58 ADD CONSTRAINT `payment_ibfk_1` FOREIGN KEY (`customer_id`) REFERENCES `customer` (`customer_id`),
59 ADD CONSTRAINT `payment_ibfk_2` FOREIGN KEY (`staff_id`) REFERENCES `staff` (`staff_id`),
60 ADD CONSTRAINT `payment_ibfk_3` FOREIGN KEY (`rental_id`) REFERENCES `rental` (`rental_id`);
61 --
62 --
63 -- Constraints for table `rental`
64 --
65 ALTER TABLE `rental`
66 ADD CONSTRAINT `rental_ibfk_1` FOREIGN KEY (`Inventory_id`) REFERENCES `inventory` (`inventory_id`),
67 ADD CONSTRAINT `rental_ibfk_2` FOREIGN KEY (`customer_id`) REFERENCES `customer` (`customer_id`),
68 ADD CONSTRAINT `rental_ibfk_3` FOREIGN KEY (`staff_id`) REFERENCES `staff` (`staff_id`);
69 --
70 --
71 -- Constraints for table `staff`
72 --
73 ALTER TABLE `staff`
74 ADD CONSTRAINT `staff_ibfk_1` FOREIGN KEY (`address_id`) REFERENCES `address` (`address_id`),
75 ADD CONSTRAINT `staff_ibfk_2` FOREIGN KEY (`store_id`) REFERENCES `store` (`store_id`);
76 --
77 --
78 -- Constraints for table `store`
79 --
80 ALTER TABLE `store`
81 ADD CONSTRAINT `store_ibfk_1` FOREIGN KEY (`manager_staff_id`) REFERENCES `staff` (`staff_id`),
82 ADD CONSTRAINT `store_ibfk_2` FOREIGN KEY (`address_id`) REFERENCES `address` (`address_id`);

```

5 Table Indexes (Primary/Foreign Keys)

```

1  -- Indexes for dumped tables
2  --
3  --
4  --
5  -- Indexes for table `actor`
6  --
7  ALTER TABLE `actor`
8  ADD PRIMARY KEY (`actor_id`);
9  --
10 --
11 -- Indexes for table `address`
12 --
13 ALTER TABLE `address`
14 ADD PRIMARY KEY (`address_id`),
15 ADD KEY `city_id` (`city_id`);
16 --
17 --
18 -- Indexes for table `category`
19 --
20 ALTER TABLE `category`
21 ADD PRIMARY KEY (`category_id`);
22 --
23 --
24 -- Indexes for table `city`
25 --
26 ALTER TABLE `city`
27 ADD PRIMARY KEY (`city_id`),
28 ADD KEY `country_id` (`country_id`);
29 --
30 --
31 -- Indexes for table `country`
32 --
33 ALTER TABLE `country`
34 ADD PRIMARY KEY (`country_id`);
35 --
36 --
37 -- Indexes for table `customer`
38 --
39 ALTER TABLE `customer`
40 ADD PRIMARY KEY (`customer_id`),
41 ADD KEY `store_id` (`store_id`),
42 ADD KEY `address_id` (`address_id`);
43 --
44 -- Indexes for table `film`
45 --
46 ALTER TABLE `film`
47 ADD PRIMARY KEY (`film_id`),
48 ADD KEY `language_id` (`language_id`);
49 --
50 --
51 --
52 -- Indexes for table `film_actor`
53 --
54 ALTER TABLE `film_actor`
55 ADD KEY `actor_id` (`actor_id`),
56 ADD KEY `film_id` (`film_id`);
57 --
58 --
59 -- Indexes for table `film_category`
60 --
61 ALTER TABLE `film_category`
62 ADD KEY `film_id` (`film_id`),
63 ADD KEY `category_id` (`category_id`);
64 --
65 --
66 -- Indexes for table `film_text`
67 --
68 ALTER TABLE `film_text`
69 ADD KEY `film_id` (`film_id`);
70 --
71 --
72 -- Indexes for table `inventory`
73 --
74 ALTER TABLE `inventory`
75 ADD PRIMARY KEY (`inventory_id`),
76 ADD KEY `film_id` (`film_id`),
77 ADD KEY `store_id` (`store_id`);
78 --
79 --
80 -- Indexes for table `language`
81 --
82 ALTER TABLE `language`
83 ADD PRIMARY KEY (`language_id`);
84 --
85 --
86 -- Indexes for table `payment`
87 --
88 ALTER TABLE `payment`
89 ADD PRIMARY KEY (`payment_id`),
90 ADD KEY `customer_id` (`customer_id`),
91 ADD KEY `staff_id` (`staff_id`),
92 ADD KEY `rental_id` (`rental_id`);
93 --
94 --
95 -- Indexes for table `rental`
96 --
97 ALTER TABLE `rental`
98 ADD PRIMARY KEY (`rental_id`),
99 ADD KEY `inventory_id` (`inventory_id`),
100 ADD KEY `customer_id` (`customer_id`),
101 ADD KEY `staff_id` (`staff_id`);
102 --
103 --
104 -- Indexes for table `staff`
105 --
106 ALTER TABLE `staff`
107 ADD PRIMARY KEY (`staff_id`),
108 ADD KEY `address_id` (`address_id`),
109 ADD KEY `store_id` (`store_id`);
110 --
111 --
112 -- Indexes for table `store`
113 --
114 ALTER TABLE `store`
115 ADD PRIMARY KEY (`store_id`),
116 ADD KEY `manager_staff_id` (`manager_staff_id`),
117 ADD KEY `address_id` (`address_id`);

```

6 Table Structures

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	actor_id	int(3)	utf8_general_ci		No	None			Change Drop More
2	first_name	varchar(11)	utf8_general_ci		Yes	NULL			Change Drop More
3	last_name	varchar(12)	utf8_general_ci		Yes	NULL			Change Drop More
4	last_update	datetime			Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	actor_id	200	A	No	

Figure 19: Structure of table "Actor"

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	address_id	int(3)	utf8_general_ci		No	None			Change Drop More
2	address	varchar(38)	utf8_general_ci		Yes	NULL			Change Drop More
3	address2	varchar(10)	utf8_general_ci		Yes	NULL			Change Drop More
4	district	varchar(20)	utf8_general_ci		Yes	NULL			Change Drop More
5	city_id	int(3)			Yes	NULL			Change Drop More
6	postal_code	mediumint(5)			Yes	NULL			Change Drop More
7	phone	bigint(12)			Yes	NULL			Change Drop More
8	last_update	datetime			Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	address_id	603	A	No	
Edit Drop	city_id	BTREE	No	No	city_id	603	A	Yes	

Figure 20: Structure of table "Address"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	category_id	int(2)			No	None			Change Drop More
2	name	varchar(11)	utf8_general_ci		Yes	NULL			Change Drop More
3	last_update	datetime			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize
 Add 1 column(s) after last_update Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	category_id	16	A	No	

Figure 21: Structure of table "Category"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	city_id	int(3)			No	None			Change Drop More
2	city	varchar(26)	utf8_general_ci		Yes	NULL			Change Drop More
3	country_id	int(3)			Yes	NULL			Change Drop More
4	last_update	datetime			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize
 Add 1 column(s) after last_update Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	city_id	600	A	No	
Edit Drop	country_id	BTREE	No	No	country_id	300	A	Yes	

Figure 22: Structure of table "City"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	country_id	int(3)			No	None			Change Drop More
2	country	varchar(36)	utf8_general_ci		Yes	NULL			Change Drop More
3	last_update	datetime			Yes	NULL			Change Drop More

Check all With selected: [Browse](#) Change Drop Primary Unique Index Fulltext
[Add to central columns](#) [Remove from central columns](#)

[Print](#) [Propose table structure](#) [Track table](#) [Move columns](#) Normalize
 Add 1 column(s) after last_update [Go](#)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	country_id	109	A	No	

Figure 23: Structure of table "Country"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	customer_id	int(3)			No	None			Change Drop More
2	store_id	int(1)			Yes	NULL			Change Drop More
3	first_name	varchar(11)	utf8_general_ci		Yes	NULL			Change Drop More
4	last_name	varchar(12)	utf8_general_ci		Yes	NULL			Change Drop More
5	email	varchar(40)	utf8_general_ci		Yes	NULL			Change Drop More
6	address_id	int(3)			Yes	NULL			Change Drop More
7	active	int(1)			Yes	NULL			Change Drop More
8	create_date	datetime			Yes	NULL			Change Drop More
9	last_update	datetime			Yes	NULL			Change Drop More

Check all With selected: [Browse](#) Change Drop Primary Unique Index Fulltext
[Add to central columns](#) [Remove from central columns](#)

[Print](#) [Propose table structure](#) [Track table](#) [Move columns](#) Normalize
 Add 1 column(s) after last_update [Go](#)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Drop	PRIMARY	BTREE	Yes	No	customer_id	599	A	No	
Drop	store_id	BTREE	No	No	store_id	4	A	Yes	
Drop	address_id	BTREE	No	No	address_id	599	A	Yes	

Figure 24: Structure of table "Customer"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	actor_id	int(3)			Yes	NULL			Change Drop More
2	film_id	int(4)			Yes	NULL			Change Drop More
3	last_update	datetime			Yes	NULL			Change Drop More

↑ Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns

Print Propose table structure Track table Move columns Normalize

Add column(s) after last_update

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	actor_id	BTREE	No	No	actor_id	420	A	Yes	
Edit Drop	film_id	BTREE	No	No	film_id	2731	A	Yes	

Figure 25: Structure of table "Film_Actor"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	film_id	int(4)			Yes	NULL			Change Drop More
2	category_id	int(2)			Yes	NULL			Change Drop More
3	last_update	datetime			Yes	NULL			Change Drop More

↑ Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns

Print Propose table structure Track table Move columns Normalize

Add column(s) after last_update

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	film_id	BTREE	No	No	film_id	1000	A	Yes	
Edit Drop	category_id	BTREE	No	No	category_id	32	A	Yes	

Figure 26: Structure of table "Film_Category"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	film_id	int(4)			No	None			Change Drop More
2	title	varchar(27)	utf8_general_ci		Yes	NULL			Change Drop More
3	description	varchar(130)	utf8_general_ci		Yes	NULL			Change Drop More
4	release_year	int(4)			Yes	NULL			Change Drop More
5	language_id	int(1)			Yes	NULL			Change Drop More
6	original_language_id	varchar(10)	utf8_general_ci		Yes	NULL			Change Drop More
7	rental_duration	int(1)			Yes	NULL			Change Drop More
8	rental_rate	decimal(3,2)			Yes	NULL			Change Drop More
9	length	int(3)			Yes	NULL			Change Drop More
10	replacement_cost	decimal(4,2)			Yes	NULL			Change Drop More
11	rating	varchar(5)	utf8_general_ci		Yes	NULL			Change Drop More
12	special_features	varchar(54)	utf8_general_ci		Yes	NULL			Change Drop More
13	last_update	datetime			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize
 Add column(s) after last_update Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	film_id	1000	A	No	
Edit Drop	language_id	BTREE	No	No	language_id	2	A	Yes	

Figure 27: Structure of table "Film"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	film_id	int(4)			Yes	NULL			Change Drop More
2	title	varchar(27)	utf8_general_ci		Yes	NULL			Change Drop More
3	description	varchar(130)	utf8_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize
 Add column(s) after description Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	film_id	BTREE	No	No	film_id	1000	A	Yes	

Figure 28: Structure of table "Film_Text"

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Inventory_Id	int(4)			No	None			Change Drop More
2	film_id	int(4)			Yes	NULL			Change Drop More
3	store_id	int(1)			Yes	NULL			Change Drop More
4	last_update	datetime			Yes	NULL			Change Drop More

Up ▲ Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns

Print Propose table structure Track table Move columns Normalize
 Add 1 column(s) after last_update Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	inventory_id	4581	A	No	
Edit Drop	film_id	BTREE	No	No	film_id	2290	A	Yes	
Edit Drop	store_id	BTREE	No	No	store_id	4	A	Yes	

Figure 29: Structure of table "Inventory"

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	language_id	int(1)			No	None			Change Drop More
2	name	varchar(8)	utf8_general_ci		Yes	NULL			Change Drop More
3	last_update	datetime			Yes	NULL			Change Drop More

Up ▲ Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns

Print Propose table structure Track table Move columns Normalize
 Add 1 column(s) after last_update Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	language_id	6	A	No	

Figure 30: Structure of table "Language"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	payment_id	int(5)			No	None		Change Drop ▾ More	
2	customer_id	int(3)			Yes	NULL		Change Drop ▾ More	
3	staff_id	int(1)			Yes	NULL		Change Drop ▾ More	
4	rental_id	int(5)			Yes	NULL		Change Drop ▾ More	
5	amount	decimal(4,2)			Yes	NULL		Change Drop ▾ More	
6	payment_date	datetime			Yes	NULL		Change Drop ▾ More	
7	last_update	datetime			Yes	NULL		Change Drop ▾ More	

↑ Check all With selected: Change Drop Primary Unique Index Fulltext

Print Propose table structure Track table Move columns Normalize

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	payment_id	16049	A	No	
Edit Drop	customer_id	BTREE	No	No	customer_id	1234	A	Yes	
Edit Drop	staff_id	BTREE	No	No	staff_id	4	A	Yes	
Edit Drop	rental_id	BTREE	No	No	rental_id	16049	A	Yes	

Figure 31: Structure of table "Payment"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	rental_id	int(5)			No	None		Change Drop ▾ More	
2	rental_date	datetime			Yes	NULL		Change Drop ▾ More	
3	inventory_id	int(4)			Yes	NULL		Change Drop ▾ More	
4	customer_id	int(3)			Yes	NULL		Change Drop ▾ More	
5	return_date	datetime			Yes	NULL		Change Drop ▾ More	
6	staff_id	int(1)			Yes	NULL		Change Drop ▾ More	
7	last_update	datetime			Yes	NULL		Change Drop ▾ More	

↑ Check all With selected: Change Drop Primary Unique Index Fulltext

Print Propose table structure Track table Move columns Normalize

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	rental_id	16044	A	No	
Edit Drop	inventory_id	BTREE	No	No	inventory_id	16044	A	Yes	
Edit Drop	customer_id	BTREE	No	No	customer_id	1234	A	Yes	
Edit Drop	staff_id	BTREE	No	No	staff_id	4	A	Yes	

Figure 32: Structure of table "Rental"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	staff_id	int(1)	utf8_general_ci		No	None			Change Drop More
2	first_name	varchar(4)	utf8_general_ci		Yes	NULL			Change Drop More
3	last_name	varchar(8)	utf8_general_ci		Yes	NULL			Change Drop More
4	address_id	int(1)	utf8_general_ci		Yes	NULL			Change Drop More
5	picture	mediumtext	utf8_general_ci		Yes	NULL			Change Drop More
6	email	varchar(28)	utf8_general_ci		Yes	NULL			Change Drop More
7	store_id	int(1)	utf8_general_ci		Yes	NULL			Change Drop More
8	active	int(1)	utf8_general_ci		Yes	NULL			Change Drop More
9	username	varchar(4)	utf8_general_ci		Yes	NULL			Change Drop More
10	password	varchar(40)	utf8_general_ci		Yes	NULL			Change Drop More
11	last_update	datetime	utf8_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize
 Add 1 column(s) after last_update

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	staff_id	2	A	No	
Edit Drop	address_id	BTREE	No	No	address_id	2	A	Yes	
Edit Drop	store_id	BTREE	No	No	store_id	2	A	Yes	

Figure 33: Structure of table "Staff"

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	store_id	int(1)	utf8_general_ci		No	None			Change Drop More
2	manager_staff_id	int(1)	utf8_general_ci		Yes	NULL			Change Drop More
3	address_id	int(1)	utf8_general_ci		Yes	NULL			Change Drop More
4	last_update	datetime	utf8_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext
 Add to central columns Remove from central columns

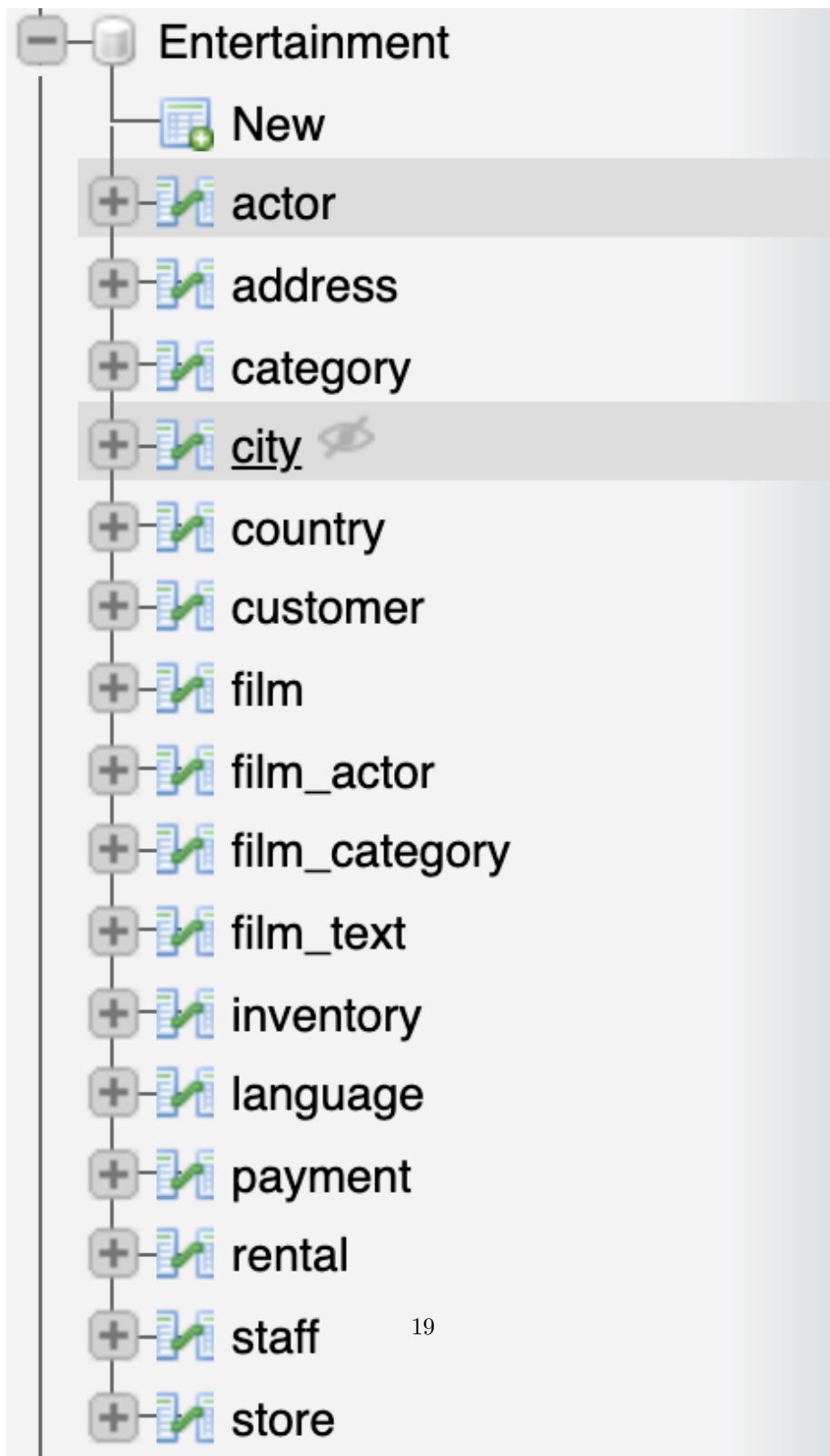
Print Propose table structure Track table Move columns Normalize
 Add 1 column(s) after last_update

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	store_id	2	A	No	
Edit Drop	manager_staff_id	BTREE	No	No	manager_staff_id	2	A	Yes	
Edit Drop	address_id	BTREE	No	No	address_id	2	A	Yes	

Figure 34: Structure of table "Store"

7 Final Results of Data Insertion & Selection



8 Overview on Tables of Database "Entertainment"

Table	Action	Rows	Type	Collation	Size	Overhead
actor		200	InnoDB	utf8_general_ci	16.0 Kib	-
address		603	InnoDB	utf8_general_ci	96.0 Kib	-
category		16	InnoDB	utf8_general_ci	16.0 Kib	-
city		600	InnoDB	utf8_general_ci	80.0 Kib	-
country		109	InnoDB	utf8_general_ci	16.0 Kib	-
customer		599	InnoDB	utf8_general_ci	128.0 Kib	-
film		1,000	InnoDB	utf8_general_ci	256.0 Kib	-
film_actor		5,462	InnoDB	utf8_general_ci	544.0 Kib	-
film_category		1,000	InnoDB	utf8_general_ci	176.0 Kib	-
film_text		1,000	InnoDB	utf8_general_ci	224.0 Kib	-
inventory		4,581	InnoDB	utf8_general_ci	416.0 Kib	-
language		6	InnoDB	utf8_general_ci	16.0 Kib	-
payment		16,049	InnoDB	utf8_general_ci	2.3 Mib	-
rental		16,044	InnoDB	utf8_general_ci	2.3 Mib	-
staff		2	InnoDB	utf8_general_ci	96.0 Kib	-
store		2	InnoDB	utf8_general_ci	48.0 Kib	-
16 tables	Sum	47,273	InnoDB	utf8mb4_general_ci	6.7 Mib	0 B

Figure 35: Summary of tables within the database.

8.1 Table Contents

Showing rows 0 - 24 (200 total, Query took 0.0009 seconds.) [actor_id: 1... - 25...]						
SELECT * FROM `actor` ORDER BY `actor_id` ASC						
<input type="checkbox"/> Profiling <input type="checkbox"/> Edit inline <input type="checkbox"/> Explain SQL <input type="checkbox"/> Create PHP code <input type="checkbox"/> Refresh						
1	> >>	Show all	Number of rows:	25	Filter rows:	Search this table
Sort by key: PRIMARY (ASC) ▾						
+ Options			(actor_id	1	first_name	last_name
)	1	PENELOPE	GUINNESS
				2	NICK	WAHLBERG
				3	ED	CHASE
				4	JENNIFER	DAVIS
				5	JOHNNY	LOLLOBRIGIDA
				6	BETTE	NICHOLSON
				7	GRACE	MOSTEL
				8	MATTHEW	JOHANSSON
				9	JOE	SWANK
				10	CHRISTIAN	GABLE
				11	ZERO	CAGE
				12	KARL	BERRY
				13	UMA	WOOD
				14	VIVIEN	BERGEN
				15	CUBA	OLIVIER
				16	FRED	COSTNER
				17	HELEN	VOIGHT
				18	DAN	TORN
				19	BOB	FAWCETT
				20	LUCILLE	TRACY
Console						

Figure 36: Sample content of the table "Actor".

Showing rows 0 - 24 (603 total, Query took 0.0007 seconds.)

SELECT * FROM `address`

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

	address_id	address	address2	district	city_id	postal_code	phone	last_update
<input type="checkbox"/>	1	47 MySakila Drive		Alberta	300	NULL	NULL	2014-09-25 22:30:27
<input type="checkbox"/>	2	28 MySQL Boulevard		QLD	576	NULL	NULL	2014-09-25 22:30:09
<input type="checkbox"/>	3	23 Workhaven Lane		Alberta	300	NULL	1403335568	2014-09-25 22:30:27
<input type="checkbox"/>	4	1411 Lillarydale Drive		QLD	576	NULL	6172235589	2014-09-25 22:30:09
<input type="checkbox"/>	5	1913 Hanoi Way		Nagasaki	463	35200	28303384290	2014-09-25 22:31:53
<input type="checkbox"/>	6	1121 Loja Avenue		California	449	17886	838635000000	2014-09-25 22:34:01
<input type="checkbox"/>	7	692 Joliet Street		Attika	38	83579	448477000000	2014-09-25 22:31:07
<input type="checkbox"/>	8	1566 Inegl Manor		Mandalay	349	53561	705814000000	2014-09-25 22:32:18
<input type="checkbox"/>	9	53 Idfu Parkway		Nantou	361	42399	10655648674	2014-09-25 22:33:16
<input type="checkbox"/>	10	1795 Santiago de Compostela Way		Texas	295	18743	860453000000	2014-09-25 22:33:55
<input type="checkbox"/>	11	900 Santiago de Compostela Parkway		Central Serbia	280	93896	716571000000	2014-09-25 22:34:11
<input type="checkbox"/>	12	478 Joliet Way		Hamilton	200	77948	657282000000	2014-09-25 22:32:22
<input type="checkbox"/>	13	613 Korolev Drive		Masqat	329	45844	380658000000	2014-09-25 22:32:29
<input type="checkbox"/>	14	1531 Sal Drive		Esfahan	162	53628	648857000000	2014-09-25 22:31:36
<input type="checkbox"/>	15	1542 Tarlac Parkway		Kanagawa	440	1027	635297000000	2014-09-25 22:31:53
<input type="checkbox"/>	16	808 Bhopal Manor		Haryana	582	10672	465588000000	2014-09-25 22:31:30
<input type="checkbox"/>	17	270 Amroha Parkway		Osmaniye	384	29610	695480000000	2014-09-25 22:33:27
<input type="checkbox"/>	18	770 Bydgoszcz Avenue		California	120	16266	517338000000	2014-09-25 22:33:47
<input type="checkbox"/>	19	419 Iligan Lane		Madhya Pradesh	76	72878	990911000000	2014-09-25 22:31:13
<input type="checkbox"/>	20	360 Toulouse Parkway		England	495	54308	949312000000	2014-09-25 22:33:40
<input checked="" type="checkbox"/>	21	270 Toulon Boulevard		Malaysia	166	61762	8777299999999999	2014-09-25 22:32:48

Console | [Create](#) [Delete](#)

Figure 37: Sample content of the table "Address".

Showing rows 0 - 15 (16 total, Query took 0.0006 seconds.)

SELECT * FROM `category`

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

	category_id	name	last_update
<input type="checkbox"/>	1	Action	2006-02-15 04:46:27
<input type="checkbox"/>	2	Animation	2006-02-15 04:46:27
<input type="checkbox"/>	3	Children	2006-02-15 04:46:27
<input type="checkbox"/>	4	Classics	2006-02-15 04:46:27
<input type="checkbox"/>	5	Comedy	2006-02-15 04:46:27
<input type="checkbox"/>	6	Documentary	2006-02-15 04:46:27
<input type="checkbox"/>	7	Drama	2006-02-15 04:46:27
<input type="checkbox"/>	8	Family	2006-02-15 04:46:27
<input type="checkbox"/>	9	Foreign	2006-02-15 04:46:27
<input type="checkbox"/>	10	Games	2006-02-15 04:46:27
<input type="checkbox"/>	11	Horror	2006-02-15 04:46:27
<input type="checkbox"/>	12	Music	2006-02-15 04:46:27
<input type="checkbox"/>	13	New	2006-02-15 04:46:27
<input type="checkbox"/>	14	Sci-Fi	2006-02-15 04:46:27
<input type="checkbox"/>	15	Sports	2006-02-15 04:46:27
<input type="checkbox"/>	16	Travel	2006-02-15 04:46:27

Figure 38: Sample content of the table "Category".

Showing rows 0 - 24 (600 total. Query took 0.0005 seconds.)

```
SELECT * FROM `city`
```

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

	<input type="button" value="1"/>	<input type="button" value=">"/>	<input type="button" value=">>"/>	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options									
	city_id	city	country_id	last_update					
<input type="checkbox"/>	1	A Corua (La Corua)	87	2006-02-15 04:45:25					
<input type="checkbox"/>	2	Abha	82	2006-02-15 04:45:25					
<input type="checkbox"/>	3	Abu Dhabi	101	2006-02-15 04:45:25					
<input type="checkbox"/>	4	Acua	60	2006-02-15 04:45:25					
<input type="checkbox"/>	5	Adana	97	2006-02-15 04:45:25					
<input type="checkbox"/>	6	Addis Abeba	31	2006-02-15 04:45:25					
<input type="checkbox"/>	7	Aden	107	2006-02-15 04:45:25					
<input type="checkbox"/>	8	Adoni	44	2006-02-15 04:45:25					
<input type="checkbox"/>	9	Ahmadnagar	44	2006-02-15 04:45:25					
<input type="checkbox"/>	10	Akshima	50	2006-02-15 04:45:25					
<input type="checkbox"/>	11	Akron	103	2006-02-15 04:45:25					
<input type="checkbox"/>	12	al-Ayn	101	2006-02-15 04:45:25					
<input type="checkbox"/>	13	al-Hawiyah	82	2006-02-15 04:45:25					
<input type="checkbox"/>	14	al-Manama	11	2006-02-15 04:45:25					
<input type="checkbox"/>	15	al-Qadarif	89	2006-02-15 04:45:25					
<input type="checkbox"/>	16	al-Qatif	82	2006-02-15 04:45:25					
<input type="checkbox"/>	17	Alessandria	49	2006-02-15 04:45:25					
<input type="checkbox"/>	18	Allappuzha (Alleppey)	44	2006-02-15 04:45:25					
<input type="checkbox"/>	19	Allende	60	2006-02-15 04:45:25					

Figure 39: Sample content of the table "City".

Showing rows 0 - 24 (109 total. Query took 0.0005 seconds.)

```
SELECT * FROM `country`
```

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

	<input type="button" value="1"/>	<input type="button" value=">"/>	<input type="button" value=">>"/>	<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options										
	country_id	country	last_update							
<input type="checkbox"/>	1	Afghanistan	2006-02-15 04:44:00							
<input type="checkbox"/>	2	Algeria	2006-02-15 04:44:00							
<input type="checkbox"/>	3	American Samoa	2006-02-15 04:44:00							
<input type="checkbox"/>	4	Angola	2006-02-15 04:44:00							
<input type="checkbox"/>	5	Anguilla	2006-02-15 04:44:00							
<input type="checkbox"/>	6	Argentina	2006-02-15 04:44:00							
<input type="checkbox"/>	7	Armenia	2006-02-15 04:44:00							
<input type="checkbox"/>	8	Australia	2006-02-15 04:44:00							
<input type="checkbox"/>	9	Austria	2006-02-15 04:44:00							
<input type="checkbox"/>	10	Azerbaijan	2006-02-15 04:44:00							
<input type="checkbox"/>	11	Bahrain	2006-02-15 04:44:00							
<input type="checkbox"/>	12	Bangladesh	2006-02-15 04:44:00							
<input type="checkbox"/>	13	Belarus	2006-02-15 04:44:00							
<input type="checkbox"/>	14	Bolivia	2006-02-15 04:44:00							
<input type="checkbox"/>	15	Brazil	2006-02-15 04:44:00							
<input type="checkbox"/>	16	Brunei	2006-02-15 04:44:00							
<input type="checkbox"/>	17	Bulgaria	2006-02-15 04:44:00							
<input type="checkbox"/>	18	Cambodia	2006-02-15 04:44:00							
<input type="checkbox"/>	19	Cameroon	2006-02-15 04:44:00							

Figure 40: Sample content of the table "Country".

Showing rows 0 - 24 (599 total, Query took 0.0006 seconds.)

SELECT * FROM `customer`

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

	customer_id	store_id	first_name	last_name	email	address_id	active	create_date	last_update
Edit Copy Delete	1	1	MARY	SMITH	MARY.SMITH@sakilacustomer.org	5	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	2	1	PATRICIA	JOHNSON	PATRICIA.JOHNSON@sakilacustomer.org	6	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	3	1	LINDA	WILLIAMS	LINDA.WILLIAMS@sakilacustomer.org	7	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	4	2	BARBARA	JONES	BARBARA.JONES@sakilacustomer.org	8	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	5	1	ELIZABETH	BROWN	ELIZABETH.BROWN@sakilacustomer.org	9	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	6	2	JENNIFER	DAVIS	JENNIFER.DAVIS@sakilacustomer.org	10	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	7	1	MARIA	MILLER	MARIA.MILLER@sakilacustomer.org	11	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	8	2	SUSAN	WILSON	SUSAN.WILSON@sakilacustomer.org	12	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	9	2	MARGARET	MOORE	MARGARET.MOORE@sakilacustomer.org	13	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	10	1	DOROTHY	TAYLOR	DOROTHY.TAYLOR@sakilacustomer.org	14	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	11	2	LISA	ANDERSON	LISA.ANDERSON@sakilacustomer.org	15	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	12	1	NANCY	THOMAS	NANCY.THOMAS@sakilacustomer.org	16	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	13	2	KAREN	JACKSON	KAREN.JACKSON@sakilacustomer.org	17	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	14	2	BETTY	WHITE	BETTY.WHITE@sakilacustomer.org	18	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	15	1	HELEN	HARRIS	HELEN.HARRIS@sakilacustomer.org	19	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	16	2	SANDRA	MARTIN	SANDRA.MARTIN@sakilacustomer.org	20	0	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	17	1	DONNA	THOMPSON	DONNA.THOMPSON@sakilacustomer.org	21	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	18	2	CAROL	GARCIA	CAROL.GARCIA@sakilacustomer.org	22	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	19	1	RUTH	MARTINEZ	RUTH.MARTINEZ@sakilacustomer.org	23	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	20	2	SHARON	ROBINSON	SHARON.ROBINSON@sakilacustomer.org	24	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	21	1	MICHELLE	CLARK	MICHELLE.CLARK@sakilacustomer.org	25	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	22	1	LAURA	RODRIGUEZ	LAURA.RODRIGUEZ@sakilacustomer.org	26	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	23	2	SARAH	LEWIS	SARAH.LEWIS@sakilacustomer.org	27	1	2006-02-14 22:04:36	2006-02-15 04:57:20
Edit Copy Delete	24	2	KIMBERLY	LEE	KIMBERLY.LEE@sakilacustomer.org	28	1	2006-02-14 22:04:36	2006-02-15 04:57:20

Figure 41: Sample content of the table "Customer".

Showing rows 0 - 24 (1000 total, Query took 0.0006 seconds.)

SELECT * FROM `film`

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

	film_id	title	description	release_year	language_id	original_language_id	rental_duration	rental_rate	length	replacement_cost	rating	special_features	last_update
Edit Copy Delete	1	ACADEMY DINOSAUR	A Epic Drama of a Feminist And a Mad Scientist who...	2006	1		6	0.99	86	20.99	PG	Deleted Scenes,Behind the Scenes	2006-02-15 05:03:42
Edit Copy Delete	2	ACE GOLDFINGER	A Astounding Epistle of a Database Administrator A...	2006	1		3	4.99	48	12.99	G	Trailers,Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	3	ADAPTATION HOLES	A Astounding Reflection of a Lumberjack And a...	2006	1		7	2.99	50	18.99	NC-17	Trailers,Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	4	AFFAIR PREJUDICE	A Fanciful Documentary of a Fishbowl And a Lumber...	2006	1		5	2.99	117	26.99	G	Commentaries,Behind the Scenes	2006-02-15 05:03:42
Edit Copy Delete	5	AFRICAN EGG	A Fast-Paced Documentary of a Pastry Chef And a Da...	2006	1		6	2.99	130	22.99	G	Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	6	AGENT TRUMAN	A Intriguing Panorama of a Man And a Boy who must...	2006	1		3	2.99	169	17.99	PG	Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	7	AIRPLANE SIERRA	A Touching Saga of a Pilot And a Butter who must...	2006	1		6	4.99	62	28.99	PG-13	Trailers,Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	8	AIRPORT POLLOCK	A Epic Tale of a Mouse And a Girl who must...	2006	1		6	4.99	54	15.99	R	Trailers	2006-02-15 05:03:42
Edit Copy Delete	9	ALABAMA DEVIL	A Thoughtful Panorama of a Database Administrator...	2006	1		3	2.99	114	21.99	PG-13	Trailers,Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	10	ALADDIN CALENDAR	A Action-Packed Tale of a Man And a Lumberjack who...	2006	1		6	4.99	83	24.99	NC-17	Trailers,Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	11	ALAMO VIDEOTAPE	A Bonus Epistle of a Bull And a Cat who must...	2006	1		6	0.99	128	18.99	G	Commentaries,Behind the Scenes	2006-02-15 05:03:42
Edit Copy Delete	12	ALASKA PHANTOM	A Fanciful Saga of a Pastry Chef who...	2006	1		6	0.99	136	22.99	PG	Commentaries,Deleted Scenes	2006-02-15 05:03:42
Edit Copy Delete	13	ALI FOREVER	A Action-Packed Drama of a Dentist And a...	2006	1		4	4.99	150	21.99	PG	Deleted Scores,Behind the Scores	2006-02-15 05:03:42
Edit Copy Delete	14	Alice FANTASIA	A Emotional Drama of a Shark And a Database...	2006	1		6	0.99	94	23.99	NC-17	Trailers,Deleted Scores,Behind the Scores	2006-02-15 05:03:42
Edit Copy Delete	15	ALIEN CENTER	A Brilliant Drama of a Cat And a Muri Scientist...	2006	1		6	2.99	48	10.99	NC-17	Trailers,Commentaries,Behind the Scores	2006-02-15 05:03:42

Figure 42: Sample content of the table "Film".

Showing rows 0 - 24 (5462 total, Query took 0.0006 seconds.)

```
SELECT * FROM `film_actor`
```

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

	1	>	>>	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options									
	actor_id	film_id	last_update						
	1	1	2006-02-15 05:05:03						
	1	23	2006-02-15 05:05:03						
	1	25	2006-02-15 05:05:03						
	1	106	2006-02-15 05:05:03						
	1	140	2006-02-15 05:05:03						
	1	166	2006-02-15 05:05:03						
	1	277	2006-02-15 05:05:03						
	1	361	2006-02-15 05:05:03						
	1	438	2006-02-15 05:05:03						
	1	499	2006-02-15 05:05:03						
	1	506	2006-02-15 05:05:03						
	1	509	2006-02-15 05:05:03						
	1	605	2006-02-15 05:05:03						
	1	635	2006-02-15 05:05:03						
	1	749	2006-02-15 05:05:03						
	1	832	2006-02-15 05:05:03						
	1	939	2006-02-15 05:05:03						
	1	970	2006-02-15 05:05:03						
	1	980	2006-02-15 05:05:03						
	2	3	2006-02-15 05:05:03						
	2	31	2006-02-15 05:05:03						
	2	47	2006-02-15 05:05:03						
	2	105	2006-02-15 05:05:03						
	2	132	2006-02-15 05:05:03						
	2	145	2006-02-15 05:05:03						

Figure 43: Sample content of the table "Film_Actor".

Showing rows 0 - 24 (1000 total, Query took 0.0021 seconds.)

```
SELECT * FROM `film_category`
```

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

	1	>	>>	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options									
	film_id	category_id	last_update						
	1	6	2006-02-15 05:07:09						
	2	11	2006-02-15 05:07:09						
	3	6	2006-02-15 05:07:09						
	4	11	2006-02-15 05:07:09						
	5	8	2006-02-15 05:07:09						
	6	9	2006-02-15 05:07:09						
	7	5	2006-02-15 05:07:09						
	8	11	2006-02-15 05:07:09						
	9	11	2006-02-15 05:07:09						
	10	15	2006-02-15 05:07:09						
	11	9	2006-02-15 05:07:09						
	12	12	2006-02-15 05:07:09						
	13	11	2006-02-15 05:07:09						
	14	4	2006-02-15 05:07:09						
	15	9	2006-02-15 05:07:09						
	16	9	2006-02-15 05:07:09						
	17	12	2006-02-15 05:07:09						
	18	2	2006-02-15 05:07:09						
	19	1	2006-02-15 05:07:09						
	20	12	2006-02-15 05:07:09						
	21	1	2006-02-15 05:07:09						
	22	13	2006-02-15 05:07:09						
	23	2	2006-02-15 05:07:09						
	24	11	2006-02-15 05:07:09						
	25	13	2006-02-15 05:07:09						

Figure 44: Sample content of the table "Film_Category".

Showing rows 0 - 24 (1000 total, Query took 0.0007 seconds.)

```
SELECT * FROM `film_text`
```

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

	1	>	>>	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options									
film_id	title	description							
1	ACADEMY DINOSAUR	A Epic Drama of a Feminist And a Mad Scientist who...							
2	ACE GOLDFINGER	A Astounding Epistle of a Database Administrator A...							
3	ADAPTATION HOLES	A Astounding Reflection of a Lumberjack And a Car ...							
4	AFFAIR PREJUDICE	A Fanciful Documentary of a Frisbee And a Lumberja...							
5	AFRICAN EGG	A Fast-Paced Documentary of a Pastry Chef And a De...							
6	AGENT TRUMAN	A Intrepid Panorama of a Robot And a Boy who must ...							
7	AIRPLANE SIERRA	A Touching Saga of a Hunter And a Butler who must ...							
8	AIRPORT POLLOCK	A Epic Tale of a Moose And a Girl who must Confron...							
9	ALABAMA DEVIL	A Thoughtful Panorama of a Database Administrator ...							
10	ALADDIN CALENDAR	A Action-Packed Tale of a Man And a Lumberjack who...							
11	ALAMO VIDEOTAPE	A Boring Epistle of a Butler And a Cat who must Fl...							
12	ALASKA PHANTOM	A Fanciful Saga of a Hunter And a Pastry Chef who ...							
13	ALI FOREVER	A Action-Packed Drama of a Dentist And a Crocodile..							
14	ALICE FANTASIA	A Emotional Drama of a Shark And a Database Admi...							
15	ALIEN CENTER	A Brilliant Drama of a Cat And a Mad Scientist who...							
16	ALLEY EVOLUTION	A Fast-Paced Drama of a Robot And a Composer who m...							
17	ALONE TRIP	A Fast-Paced Character Study of a Composer And a D...							
18	ALTER VICTORY	A Thoughtful Drama of a Composer And a Feminist wh...							
19	AMADEUS HOLY	A Emotional Display of a Pioneer And a Technical W...							
20	AMELIE HELLFIGHTERS	A Boring Drama of a Woman And a Squirrel who must ...							
21	AMERICAN CIRCUS	A Insightful Drama of a Girl And a Astronaut who m...							
22	AMISTAD MIDSUMMER	A Emotional Character Study of a Dentist And a Cro...							
23	ANACONDA CONFESSIONS	A Lackluster Display of a Dentist And a Dentist w...							
24	ANALYZE HOOISERS	A Thoughtful Display of a Explorer And a Pastry Ch...							
25	ANGELS LIFE	A Thoughtful Display of a Woman And a Astronaut wh...							

Figure 45: Sample content of the table "Film_Text".

Showing rows 0 - 24 (4581 total, Query took 0.0015 seconds.)

```
SELECT * FROM `inventory`
```

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

	1	>	>>	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options									
		▼	▼	inventory_id	film_id	store_id	last_update		
<input type="checkbox"/>	Edit	Copy	Delete	1	1	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	2	1	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	3	1	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	4	1	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	5	1	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	6	1	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	7	1	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	8	1	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	9	2	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	10	2	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	11	2	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	12	3	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	13	3	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	14	3	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	15	3	2	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	16	4	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	17	4	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	18	4	1	2006-02-15 05:09:17		
<input type="checkbox"/>	Edit	Copy	Delete	19	4	1	2006-02-15 05:09:17		

Figure 46: Sample content of the table "Inventory".

Showing rows 0 - 5 (6 total, Query took 0.0007 seconds.)

[SELECT](#) * FROM `language`

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	Edit	Copy	Delete	language_id	name	last_update	
<input type="checkbox"/>	Edit	Copy	Delete	1	English	2006-02-15 05:02:19	
<input type="checkbox"/>	Edit	Copy	Delete	2	Italian	2006-02-15 05:02:19	
<input type="checkbox"/>	Edit	Copy	Delete	3	Japanese	2006-02-15 05:02:19	
<input type="checkbox"/>	Edit	Copy	Delete	4	Mandarin	2006-02-15 05:02:19	
<input type="checkbox"/>	Edit	Copy	Delete	5	French	2006-02-15 05:02:19	
<input type="checkbox"/>	Edit	Copy	Delete	6	German	2006-02-15 05:02:19	

Figure 47: Sample content of the table "Language".

Showing rows 0 - 24 (16049 total, Query took 0.0007 seconds.)

[SELECT](#) * FROM `payment`

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

	<_>	>_>	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None	_>	
+ Options										
<input type="checkbox"/>	Edit	Copy	Delete	1	1	1	76	2.99	2005-05-25 11:30:37	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	2	1	1	573	0.99	2005-05-28 10:35:23	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	3	1	1	1185	5.99	2005-06-15 00:54:12	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	4	1	2	1422	0.99	2005-06-15 18:02:53	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	5	1	2	1476	9.99	2005-06-15 21:08:46	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	6	1	1	1725	4.99	2005-06-16 15:18:57	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	7	1	1	2308	4.99	2005-06-18 08:41:48	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	8	1	2	2363	0.99	2005-06-18 13:33:59	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	9	1	1	3284	3.99	2005-06-21 06:24:45	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	10	1	2	4526	5.99	2005-07-08 03:17:05	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	11	1	1	4611	5.99	2005-07-08 07:33:35	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	12	1	1	5244	4.99	2005-07-09 13:24:07	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	13	1	1	5326	4.99	2005-07-09 16:58:01	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	14	1	1	6163	7.99	2005-07-11 10:13:46	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	15	1	2	7273	2.99	2005-07-27 11:31:22	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	16	1	1	7841	4.99	2005-07-28 09:04:45	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	17	1	2	8033	4.99	2005-07-28 16:18:23	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	18	1	1	8074	0.99	2005-07-28 17:33:39	2006-02-15 22:12:30
<input type="checkbox"/>	Edit	Copy	Delete	19	1	2	8116	0.99	2005-07-28 19:20:07	2006-02-15 22:12:30

Figure 48: Sample content of the table "Payment".

Showing rows 0 - 24 (16044 total, Query took 0.00009 seconds.)

[SELECT * FROM `rental`](#)

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

	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None	
+ Options - T- ↗							
	rental_id	rental_date	inventory_id	customer_id	return_date	staff_id	last_update
<input type="checkbox"/>	1	2005-05-24 22:53:30	367	130	2005-05-26 22:04:30	1	2006-02-15 21:30:53
<input type="checkbox"/>	2	2005-05-24 22:54:33	1525	459	2005-05-28 19:40:33	1	2006-02-15 21:30:53
<input type="checkbox"/>	3	2005-05-24 23:03:39	1711	408	2005-06-01 22:12:39	1	2006-02-15 21:30:53
<input type="checkbox"/>	4	2005-05-24 23:04:41	2452	333	2005-06-03 01:43:41	2	2006-02-15 21:30:53
<input type="checkbox"/>	5	2005-05-24 23:05:21	2079	222	2005-06-02 04:33:21	1	2006-02-15 21:30:53
<input type="checkbox"/>	6	2005-05-24 23:08:07	2792	549	2005-05-27 01:32:07	1	2006-02-15 21:30:53
<input type="checkbox"/>	7	2005-05-24 23:11:53	3995	261	2005-05-29 20:34:53	2	2006-02-15 21:30:53
<input type="checkbox"/>	8	2005-05-24 23:31:46	2346	239	2005-05-27 23:33:46	2	2006-02-15 21:30:53
<input type="checkbox"/>	9	2005-05-25 00:00:40	2580	126	2005-05-28 00:22:40	1	2006-02-15 21:30:53
<input type="checkbox"/>	10	2005-05-25 00:02:21	1824	399	2005-05-31 22:44:21	2	2006-02-15 21:30:53
<input type="checkbox"/>	11	2005-05-25 00:09:02	4443	142	2005-06-02 20:56:02	2	2006-02-15 21:30:53
<input type="checkbox"/>	12	2005-05-25 00:19:27	1584	261	2005-05-30 05:44:27	2	2006-02-15 21:30:53
<input type="checkbox"/>	13	2005-05-25 00:22:55	2294	334	2005-05-30 04:28:55	1	2006-02-15 21:30:53
<input type="checkbox"/>	14	2005-05-25 00:31:15	2701	446	2005-05-26 02:56:15	1	2006-02-15 21:30:53
<input type="checkbox"/>	15	2005-05-25 00:39:22	3049	319	2005-06-03 03:30:22	1	2006-02-15 21:30:53
<input type="checkbox"/>	16	2005-05-25 00:43:11	389	316	2005-05-26 04:42:11	2	2006-02-15 21:30:53
<input type="checkbox"/>	17	2005-05-25 01:06:36	830	575	2005-05-27 00:43:36	1	2006-02-15 21:30:53
<input type="checkbox"/>	18	2005-05-25 01:10:47	3376	19	2005-05-31 06:35:47	2	2006-02-15 21:30:53
<input type="checkbox"/>	19	2005-05-25 01:17:24	1941	456	2005-05-31 06:00:24	1	2006-02-15 21:30:53

Figure 49: Sample content of the table "Rental".

Showing rows 0 - 1 (2 total, Query took 0.00008 seconds.)

SELECT * FROM staff											
<input type="checkbox"/>	Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None				
+ Options											
	at staff_id	first_name	last_name	address_id	picture	email	store_id	active	username	password	last_update
<input type="checkbox"/>	Edit	Copy	Delete	1	Mike Hillyer	3 7PNG	Mike.Hillyer@sakilastaff.com	1	1	Mike	8cb2237d0679ca8bd646eac0d0da96345513964 2006-02-15 03:57:16
<input type="checkbox"/>	Edit	Copy	Delete	2	Jon Stephens	4 IHDRy 727e pHys ? ...	Jon.Stephens@sakilastaff.com	2	1	Jon	2006-02-15 03:57:16

Figure 50: Sample content of the table "Staff".

Showing rows 0 - 1 (2 total, Query took 0.0008 seconds.)

	store_id	manager_staff_id	address_id	last_update
<input type="checkbox"/>	1	1	1	2006-02-15 04:57:12
<input type="checkbox"/>	2	2	2	2006-02-15 04:57:12

Figure 51: Sample content of the table "Store".

9 Normalization

9.1 Entity Relation Diagram After Normalization

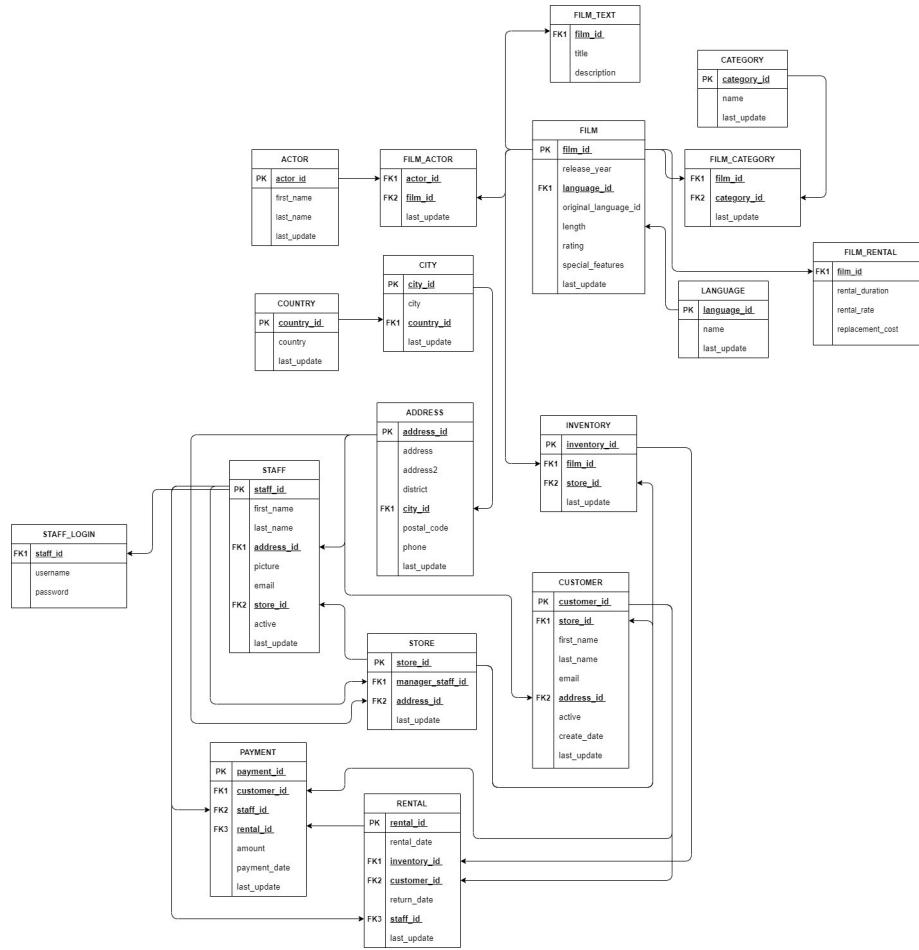


Figure 52: Database structure after normalization.

9.2 Tables Affected by Normalization

Showing rows 0 - 24 (1000 total, Query took 0.0006 seconds.)

SELECT * FROM `film`

	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	film_id	release_year	language_id	original_language_id	length	rating	special_features	last_update
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	2006	1		86	PG	Deleted Scenes,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	2006	1		48	G	Trailers,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	2006	1		50	NC-17	Trailers,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	2006	1		117	G	Commentaries,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	2006	1		130	G	Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	2006	1		169	PG	Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	2006	1		62	PG-13	Trailers,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	2006	1		54	R	Trailers	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	2006	1		114	PG-13	Trailers,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	2006	1		63	NC-17	Trailers,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	2006	1		126	G	Commentaries,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	2006	1		136	PG	Commentaries,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	2006	1		150	PG	Deleted Scenes,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	14	2006	1		94	NC-17	Trailers,Deleted Scenes,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	15	2006	1		46	NC-17	Trailers,Commentaries,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	16	2006	1		180	NC-17	Trailers,Commentaries	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	17	2006	1		82	R	Trailers,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	18	2006	1		57	PG-13	Trailers,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	19	2006	1		113	PG	Commentaries,Deleted Scenes,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	20	2006	1		79	R	Commentaries,Deleted Scenes,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	21	2006	1		129	R	Commentaries,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	22	2006	1		85	G	Commentaries,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	23	2006	1		92	R	Trailers,Deleted Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	24	2006	1		181	R	Trailers,Behind the Scenes	2006-02-15 05:03:42
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	25	2006	1		74	G	Trailers	2006-02-15 05:03:42

Figure 53: Table "Film", normalized.

Showing rows 0 - 24 (1000 total, Query took 0.0010 seconds.)

```
SELECT * FROM `film_rental`
```

1 < > >> | Number of rows: 25 Filter

+ Options

film_id	rental_duration	rental_rate	replacement_cost
1	6	0.99	20.99
2	3	4.99	12.99
3	7	2.99	18.99
4	5	2.99	26.99
5	6	2.99	22.99
6	3	2.99	17.99
7	6	4.99	28.99
8	6	4.99	15.99
9	3	2.99	21.99
10	6	4.99	24.99
11	6	0.99	16.99
12	6	0.99	22.99
13	4	4.99	21.99
14	6	0.99	23.99
15	5	2.99	10.99
16	6	2.99	23.99
17	3	0.99	14.99
18	6	0.99	27.99
19	6	0.99	20.99
20	4	4.99	23.99
21	3	4.99	17.99
22	6	2.99	10.99
23	3	0.99	9.99
24	6	2.99	19.99
25	3	2.99	15.99

Showing rows 0 - 1 (2 total, Query took 0.0006 seconds.)

```
SELECT * FROM `staff`
```

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

+ Options

	staff_id	first_name	last_name	address_id	picture	email	store_id	active	last_update
<input type="checkbox"/>	1	Mike	Hillyer	3	[BLOB - 35.5 KB]	Mike.Hillyer@sakilastaff.com	1	1	2006-02-15 03:57:16
<input type="checkbox"/>	2	Jon	Stephens	4	NULL	Jon.Stephens@sakilastaff.com	2	1	2006-02-15 03:57:16

Figure 55: Table "Staff", normalized.

Showing rows 0 - 1 (2 total, Query took 0.0092 seconds.)

```
SELECT * FROM `staff_login`
```

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

+ Options

staff_id	username	password
1	Mike	8cb2237d0679ca88db6464eac60da96345513964
2	Jon	NULL

Figure 56: Table "Staff_Login", newly created after normalization.

9.3 Table Structures After Normalization

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/>	1 film_id	int(4)			No	None		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	2 release_year	int(4)			Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	3 language_id	int(1)			Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	4 original_language_id	varchar(25)	utf8_general_ci		Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	5 length	int(3)			Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	6 rating	varchar(25)	utf8_general_ci		Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	7 special_features	varchar(100)	utf8_general_ci		Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>
<input type="checkbox"/>	8 last_update	datetime			Yes	NULL		<input type="button" value="Change"/>	<input type="button" value="Drop"/>	<input type="button" value="More"/>

Figure 57: Structure of table "Film", normalized.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	film_id	int(4)			Yes	NULL			Change Drop More
2	title	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
3	description	varchar(150)	utf8_general_ci		Yes	NULL			Change Drop More

↑ Check all With selected: Change Drop Primary

Normalize

Add 1 column(s) after description

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	film_id	BTREE	No	No	film_id	1000	A	Yes	

Figure 58: Structure of table "Film_Text", normalized.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	staff_id	int(1)			No	None			Change Drop More
2	first_name	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
3	last_name	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
4	address_id	int(3)			Yes	NULL			Change Drop More
5	picture	longblob			Yes	NULL			Change Drop More
6	email	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
7	store_id	int(1)			Yes	NULL			Change Drop More
8	active	int(1)			Yes	NULL			Change Drop More
9	last_update	datetime			Yes	NULL			Change Drop More

↑ Check all With selected: Change Drop Primary

Normalize

Add 1 column(s) after last_update

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	staff_id	4	A	No	
Edit Drop	address_id	BTREE	No	No	address_id	4	A	Yes	
Edit Drop	store_id	BTREE	No	No	store_id	4	A	Yes	

Figure 59: Structure of table "Staff", normalized.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	staff_id	int(11)			No	None			Change Drop More
2	username	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
3	password	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More

↑ Check all With selected: Change Drop Primary

Print Propose table structure Track table Move columns Normalize

Add column(s)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	staff_id	BTREE	No		staff_id	2	A	No	

Figure 60: Structure of table "Staff_Login", normalized.

9.4 Insertion After Normalization

2 rows inserted.																																														
INSERT INTO `staff`(`staff_id`, `first_name`, `last_name`, `address_id`, `picture`, `email`, `store_id`, `active`, `last_update`) VALUES ('3', 'Charles', 'McGill', '200', NULL, 'Charles.MC@sakilastaff.com', '1', '1', '2021-04-04 14:31:41'), ('4', 'Walter', 'White', '143', NULL, 'Walter.W@sakilastaff.com', '2', '1', '2021-04-04 14:31:41');																																														
Showing rows 0 - 3 (4 total, Query took 0.0006 seconds.)																																														
SELECT * FROM `staff`																																														
<input type="checkbox"/> Show all <input type="button" value="Number of rows: 25"/> <input type="button" value="Filter rows: Search this table"/> <input type="button" value="Sort by key: None"/>																																														
<input type="checkbox"/> Options Copy Delete <table border="1"> <thead> <tr> <th>staff_id</th> <th>first_name</th> <th>last_name</th> <th>address_id</th> <th>picture</th> <th>email</th> <th>store_id</th> <th>active</th> <th>last_update</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mike</td> <td>Hillyer</td> <td>3</td> <td>[BLOB - 35.5 KIB]</td> <td>Mike.Hillyer@sakilastaff.com</td> <td>1</td> <td>1</td> <td>2006-02-15 03:57:16</td> </tr> <tr> <td>2</td> <td>Jon</td> <td>Stephens</td> <td>4</td> <td>NULL</td> <td>Jon.Stephens@sakilastaff.com</td> <td>2</td> <td>1</td> <td>2006-02-15 03:57:16</td> </tr> <tr> <td>3</td> <td>Charles</td> <td>McGill</td> <td>200</td> <td>NULL</td> <td>Charles.MC@sakilastaff.com</td> <td>1</td> <td>1</td> <td>2021-04-04 14:31:41</td> </tr> <tr> <td>4</td> <td>Walter</td> <td>White</td> <td>143</td> <td>NULL</td> <td>Walter.W@sakilastaff.com</td> <td>2</td> <td>1</td> <td>2021-04-04 14:31:41</td> </tr> </tbody> </table>		staff_id	first_name	last_name	address_id	picture	email	store_id	active	last_update	1	Mike	Hillyer	3	[BLOB - 35.5 KIB]	Mike.Hillyer@sakilastaff.com	1	1	2006-02-15 03:57:16	2	Jon	Stephens	4	NULL	Jon.Stephens@sakilastaff.com	2	1	2006-02-15 03:57:16	3	Charles	McGill	200	NULL	Charles.MC@sakilastaff.com	1	1	2021-04-04 14:31:41	4	Walter	White	143	NULL	Walter.W@sakilastaff.com	2	1	2021-04-04 14:31:41
staff_id	first_name	last_name	address_id	picture	email	store_id	active	last_update																																						
1	Mike	Hillyer	3	[BLOB - 35.5 KIB]	Mike.Hillyer@sakilastaff.com	1	1	2006-02-15 03:57:16																																						
2	Jon	Stephens	4	NULL	Jon.Stephens@sakilastaff.com	2	1	2006-02-15 03:57:16																																						
3	Charles	McGill	200	NULL	Charles.MC@sakilastaff.com	1	1	2021-04-04 14:31:41																																						
4	Walter	White	143	NULL	Walter.W@sakilastaff.com	2	1	2021-04-04 14:31:41																																						

Figure 61: Insertion of new data into the table "Staff" after normalization

2 rows inserted.																
INSERT INTO `staff_login`(`staff_id`, `username`, `password`) VALUES ('3', 'Legal', 'Kim'), ('4', 'White', 'Powder');																
<table border="1"> <thead> <tr> <th>staff_id</th> <th>username</th> <th>password</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mike</td> <td>8cb2237d0679ca88db6464eac60da96345513964</td> </tr> <tr> <td>2</td> <td>Jon</td> <td>NULL</td> </tr> <tr> <td>3</td> <td>Legal</td> <td>Kim</td> </tr> <tr> <td>4</td> <td>White</td> <td>Powder</td> </tr> </tbody> </table>		staff_id	username	password	1	Mike	8cb2237d0679ca88db6464eac60da96345513964	2	Jon	NULL	3	Legal	Kim	4	White	Powder
staff_id	username	password														
1	Mike	8cb2237d0679ca88db6464eac60da96345513964														
2	Jon	NULL														
3	Legal	Kim														
4	White	Powder														

Figure 62: Insertion of new data into the table "Staff_Login" after normalization

9.5 Deletion After Normalization

2 rows affected. (Query took 0.0147 seconds.)

```
DELETE FROM `staff` WHERE `staff_id` = 3 || `staff_id` = 4
```

Showing rows 0 - 1 (2 total). Query took 0.0005 seconds.

```
SELECT * FROM `staff`
```

	staff_id	first_name	last_name	address_id	picture	email	store_id	active	last_update
<input type="checkbox"/>	1	Mike	Hillyer	3	[BLOB - 35.5 KB]	Mike.Hillyer@sakilastaff.com	1	1	2006-02-15 03:57:16
<input type="checkbox"/>	2	Jon	Stephens	4	NULL	Jon.Stephens@sakilastaff.com	2	1	2006-02-15 03:57:16

Figure 63: Data deletion from the table "Staff" after normalization

2 rows affected. (Query took 0.0065 seconds.)

```
DELETE FROM `staff_login` WHERE `staff_id` = 3 || `staff_id` = 4
```

Showing rows 0 - 1 (2 total). Query took 0.0005 seconds.

```
SELECT * FROM `staff_login`
```

	staff_id	username	password
<input type="checkbox"/>	1	Mike	8cb2237d0679ca88db6464eac60da96345513964
<input type="checkbox"/>	2	Jon	NULL

Figure 64: Data deletion from the table "Staff.Login" after normalization

9.6 Updates After Normalization

The screenshot shows a MySQL command-line interface. At the top, a green success message reads "✓ 1 row affected. (Query took 0.0114 seconds.)". Below it is the SQL command: "UPDATE `staff_login` SET `password`='Phone' WHERE `staff_id`= 3". The bottom part of the interface displays a table with four rows. The columns are labeled "staff_id", "username", and "password". The data is as follows:

staff_id	username	password
1	Mike	8cb2237d0679ca88db6464eac60da96345513964
2	Jon	NULL
3	Legal	Phone
4	White	Powder

Figure 65: Update on the table "Staff_Login" after normalization

10 Selections Based on Original Database Using the WHERE Keyword

Showing rows 0 - 24 (326 total, Query took 0.0010 seconds.)

```
SELECT `customer_id`, `first_name`, `last_name` FROM `customer` WHERE `store_id`=1
```

1 < > >> | Show all | Number of rows: 25 F

+ Options

		customer_id	first_name	last_name
<input type="checkbox"/>	 Edit  Copy  Delete	1	MARY	SMITH
<input type="checkbox"/>	 Edit  Copy  Delete	2	PATRICIA	JOHNSON
<input type="checkbox"/>	 Edit  Copy  Delete	3	LINDA	WILLIAMS
<input type="checkbox"/>	 Edit  Copy  Delete	5	ELIZABETH	BROWN
<input type="checkbox"/>	 Edit  Copy  Delete	7	MARIA	MILLER
<input type="checkbox"/>	 Edit  Copy  Delete	10	DOROTHY	TAYLOR
<input type="checkbox"/>	 Edit  Copy  Delete	12	NANCY	THOMAS
<input type="checkbox"/>	 Edit  Copy  Delete	15	HELEN	HARRIS
<input type="checkbox"/>	 Edit  Copy  Delete	17	DONNA	THOMPSON
<input type="checkbox"/>	 Edit  Copy  Delete	19	RUTH	MARTINEZ
<input type="checkbox"/>	 Edit  Copy  Delete	21	MICHELLE	CLARK
<input type="checkbox"/>	 Edit  Copy  Delete	22	LAURA	RODRIGUEZ
<input type="checkbox"/>	 Edit  Copy  Delete	25	DEBORAH	WALKER
<input type="checkbox"/>	 Edit  Copy  Delete	28	CYNTHIA	YOUNG
<input type="checkbox"/>	 Edit  Copy  Delete	30	MELISSA	KING
<input type="checkbox"/>	 Edit  Copy  Delete	32	AMY	LOPEZ
<input type="checkbox"/>	 Edit  Copy  Delete	37	PAMELA	BAKER
<input type="checkbox"/>	 Edit  Copy  Delete	38	MARTHA	GONZALEZ
<input type="checkbox"/>	 Edit  Copy  Delete	39	DEBRA	NELSON
<input type="checkbox"/>	 Edit  Copy  Delete	41	STEPHANIE	MITCHELL
<input type="checkbox"/>	 Edit  Copy  Delete	44	MARIE	TURNER
<input type="checkbox"/>	 Edit  Copy  Delete	45	JANET	PHILLIPS
<input type="checkbox"/>	 Edit  Copy  Delete	36 47	FRANCES	PARKER
<input type="checkbox"/>	Edit Copy Delete	48	ANN	EVANS
<input type="checkbox"/>	Edit Copy Delete	50	DIANE	COLLINS

Figure 66: Table "Customer"

Showing rows 0 - 24 (194 total, Query took 0.0008 seconds.)

```
SELECT `film_id`, `release_year` FROM `film` WHERE `rating`='PG'
```

1 < > >> | Show all | Number of rows: []

+ Options

	<input type="button" value="←"/>	<input type="button" value="→"/>		▼	film_id	release_year
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	19	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	37	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	41	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	63	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	65	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	72	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	74	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	78	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	84	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	88	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	91	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	93	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	99	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	103	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	121	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	122	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	131	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	132	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	134	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	137	2006	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	139	2006	

Showing rows 0 - 24 (64 total, Query took 0.001)

```
SELECT * FROM `film_category` WHERE `category_id`=1
```

1 ▾ > >> | Show all | Number

+ Options

film_id	category_id	last_update
19	1	2006-02-15 05:07:09
21	1	2006-02-15 05:07:09
29	1	2006-02-15 05:07:09
38	1	2006-02-15 05:07:09
56	1	2006-02-15 05:07:09
67	1	2006-02-15 05:07:09
97	1	2006-02-15 05:07:09
105	1	2006-02-15 05:07:09
111	1	2006-02-15 05:07:09
115	1	2006-02-15 05:07:09
126	1	2006-02-15 05:07:09
130	1	2006-02-15 05:07:09
162	1	2006-02-15 05:07:09
194	1	2006-02-15 05:07:09
205	1	2006-02-15 05:07:09
210	1	2006-02-15 05:07:09
212	1	2006-02-15 05:07:09
229	1	2006-02-15 05:07:09
250	1	2006-02-15 05:07:09
252	1	2006-02-15 05:07:09
253	1	2006-02-15 05:07:09
271	1	2006-02-15 05:07:09
287	1	2006-02-15 05:07:09
292	1	2006-02-15 05:07:09
303	1	2006-02-15 05:07:09

Showing rows 0 - 24 (2270 total, Query took 0.0017 seconds.)

```
SELECT * FROM `inventory` WHERE `store_id`=1
```

1 < > >> | Number of rows: 25 | Filter rows: Search this table

+ Options

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	inventory_id	film_id	store_id	last_update
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	1	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	1	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	1	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	1	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	16	4	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	17	4	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	18	4	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	19	4	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	26	6	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	27	6	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	28	6	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	32	7	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	33	7	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	41	9	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	42	9	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	43	9	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	46	10	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	47	10	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	48	10	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	49	10	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	53	11	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	54	11	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	55	11	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	56	11	1	2006-02-15 05:09:17
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	60	12	1	2006-02-15 05:09:17

Figure 69: Table "Inventory"

Showing rows 0 - 16 (17 total, Query took 0.0027 seconds.)

```
SELECT * FROM `payment` WHERE `staff_id` = 1 && `customer_id` = 1
```

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

+ Options

	<input type="checkbox"/>	payment_id	customer_id	staff_id	rental_id	amount	payment_date	last_update
	<input type="checkbox"/>	1	1	1	76	2.99	2005-05-25 11:30:37	2006-02-15 22:12:30
	<input type="checkbox"/>	2	1	1	573	0.99	2005-05-28 10:35:23	2006-02-15 22:12:30
	<input type="checkbox"/>	3	1	1	1185	5.99	2005-06-15 00:54:12	2006-02-15 22:12:30
	<input type="checkbox"/>	6	1	1	1725	4.99	2005-06-16 15:18:57	2006-02-15 22:12:30
	<input type="checkbox"/>	7	1	1	2308	4.99	2005-06-18 08:41:48	2006-02-15 22:12:30
	<input type="checkbox"/>	9	1	1	3284	3.99	2005-06-21 06:24:45	2006-02-15 22:12:30
	<input type="checkbox"/>	11	1	1	4611	5.99	2005-07-08 07:33:56	2006-02-15 22:12:30
	<input type="checkbox"/>	12	1	1	5244	4.99	2005-07-09 13:24:07	2006-02-15 22:12:30
	<input type="checkbox"/>	13	1	1	5326	4.99	2005-07-09 16:38:01	2006-02-15 22:12:30
	<input type="checkbox"/>	14	1	1	6163	7.99	2005-07-11 10:13:46	2006-02-15 22:12:30
	<input type="checkbox"/>	16	1	1	7841	4.99	2005-07-28 09:04:45	2006-02-15 22:12:30
	<input type="checkbox"/>	18	1	1	8074	0.99	2005-07-28 17:33:39	2006-02-15 22:12:30
	<input type="checkbox"/>	24	1	1	11367	0.99	2005-08-02 18:01:38	2006-02-15 22:12:30
	<input type="checkbox"/>	26	1	1	12250	0.99	2005-08-18 03:57:29	2006-02-15 22:12:30
	<input type="checkbox"/>	29	1	1	14762	0.99	2005-08-21 23:33:57	2006-02-15 22:12:30
	<input type="checkbox"/>	30	1	1	14825	1.99	2005-08-22 01:27:57	2006-02-15 22:12:30
	<input type="checkbox"/>	32	1	1	15315	5.99	2005-08-22 20:03:46	2006-02-15 22:12:30

Figure 70: Table "Payment"