

Final Assessment - Sakila db

1. Display the first and last name of each actor in a single column in upper case letters in alphabetic order. Name the column Actor Name.

```
mysql> SELECT CONCAT(UPPER(first_name), ' ', UPPER(last_name)) AS `Actor Name`  
-> FROM actor  
-> ORDER BY `Actor Name`;
```

| Actor Name |
|--------------------|
| ADAM GRANT |
| ADAM HOPPER |
| AL GARLAND |
| ALAN DREYFUSS |
| ALBERT JOHANSSON |
| ALBERT NOLTE |
| ALEC WAYNE |
| ANGELA HUDSON |
| ANGELA WITHERSPOON |
| ANGELINA ASTAIRE |
| ANNE CRONYN |
| AUDREY BAILEY |
| AUDREY OLIVIER |
| BELA WALKEN |
| BEN HARRIS |
| BEN WILLIS |
| BETTE NICHOLSON |
| BOB FAWCETT |
| BURT DUKAKIS |
| BURT POSEY |
| BURT TEMPLE |
| CAMERON STREEP |
| CAMERON WRAY |
| CAMERON ZELLWEGER |
| CARMEN HUNT |
| CARY MCCONAUGHEY |
| CATE HARRIS |
| CATE MCQUEEN |
| CHARLIZE DENCH |
| CHRIS BRIDGES |
| CHRIS DEPP |
| CHRISTIAN AKROYD |
| CHRISTIAN GABLE |
| CHRISTIAN NEESON |
| CHRISTOPHER BERRY |
| CHRISTOPHER WEST |

CHRISTOPHER WEST
CUBA ALLEN
CUBA BIRCH
CUBA OLIVIER
DAN HARRIS
DAN STREEP
DAN TORN
DARYL CRAWFORD
DARYL WAHLBERG
DEBBIE AKROYD
DUSTIN TAUTOU
ED CHASE
ED GUINNESS
ED MANSFIELD
ELLEN PRESLEY
ELVIS MARX
EMILY DEE
EWAN GOODING
FAY KILMER
FAY WINSLET
FAY WOOD
FRANCES DAY-LEWIS
FRANCES TOMEI
FRED COSTNER
GARY PENN
GARY PHOENIX
GENE HOPKINS
GENE MCKELLEN
GENE WILLIS
GEOFFREY HESTON
GINA DEGENERES
GOLDIE BRODY
GRACE MOSTEL
GREG CHAPLIN
GREGORY GOODING
GRETA KEITEL
GRETA MALDEN
GROUCHO DUNST
GROUCHO SINATRA
GROUCHO WILLIAMS
HARRISON BALE
HARVEY HOPE
HELEN VOIGHT

HELEN VOIGHT
HENRY BERRY
HUMPHREY GARLAND
HUMPHREY WILLIS
IAN TANDY
JADA RYDER
JAMES PITT
JANE JACKMAN
JAYNE NEESON
JAYNE NOLTE
JAYNE SILVERSTONE
JEFF SILVERSTONE
JENNIFER DAVIS
JESSICA BAILEY
JIM MOSTEL
JODIE DEGENERES
JOE SWANK
JOHN SUVARI
JOHNNY CAGE
JOHNNY LOLLOBRIGIDA
JON CHASE
JUDE CRUISE
JUDY DEAN
JULIA BARRYMORE
JULIA FAWCETT
JULIA MCQUEEN
JULIA ZELLWEGER
JULIANNE DENCH
KARL BERRY
KENNETH HOFFMAN
KENNETH PALTROW
KENNETH PESCI
KENNETH TORN
KEVIN BLOOM
KEVIN GARLAND
KIM ALLEN
KIRK JOVOVICH
KIRSTEN AKROYD
KIRSTEN PALTROW
LAURA BRODY
LAURENCE BULLOCK
LISA MONROE
LIZA BERGMAN

| | |
|----------------------|-----------------|
| LIZA BERGMAN | RIP CRAWFORD |
| LUCILLE DEE | RIP WINSLET |
| LUCILLE TRACY | RITA REYNOLDS |
| MAE HOFFMAN | RIVER DEAN |
| MARY KEITEL | ROCK DUKAKIS |
| MARY TANDY | RUSSELL BACALL |
| MATTHEW CARREY | RUSSELL CLOSE |
| MATTHEW JOHANSSON | RUSSELL TEMPLE |
| MATTHEW LEIGH | SALMA NOLTE |
| MEG HAWKE | SANDRA KILMER |
| MENA HOPPER | SANDRA PECK |
| MENA TEMPLE | SCARLETT BENING |
| MERYL ALLEN | SCARLETT DAMON |
| MERYL GIBSON | SEAN GUINNESS |
| MICHAEL BENING | SEAN WILLIAMS |
| MICHAEL BOLGER | SIDNEY CROWE |
| MICHELLE MCCONAUGHEY | SISSY SOBIESKI |
| MILLA KEITEL | SPENCER DEPP |
| MILLA PECK | SPENCER PECK |
| MINNIE KILMER | SUSAN DAVIS |
| MINNIE ZELLWEGER | SUSAN DAVIS |
| MORGAN HOPKINS | SYLVESTER DERN |
| MORGAN MCDORMAND | THORA TEMPLE |
| MORGAN WILLIAMS | TIM HACKMAN |
| NATALIE HOPKINS | TOM MCKELLEN |
| NICK DEGENERES | TOM MIRANDA |
| NICK STALLONE | UMA WOOD |
| NICK WAHLBERG | VAL BOLGER |
| OLYMPIA PFEIFFER | VIVIEN BASINGER |
| OPRAH KILMER | VIVIEN BERGEN |
| PARKER GOLDBERG | WALTER TORN |
| PENELOPE CRONYN | WARREN JACKMAN |
| PENELOPE GUINNESS | WARREN NOLTE |
| PENELOPE MONROE | WHOOPI HURT |
| PENELOPE PINKETT | WILL WILSON |
| RALPH CRUZ | WILLIAM HACKMAN |
| RAY JOHANSSON | WOODY HOFFMAN |
| REESE KILMER | WOODY JOLIE |
| REESE WEST | ZERO CAGE |
| RENEE BALL | |
| RENEE TRACY | |
| RICHARD PENN | |
| RIP CRAWFORD | |

200 rows in set (0.10 sec)

mysql>

2. Find all actors whose last name contain the letters GEN:

```
mysql> SELECT * FROM actor WHERE last_name LIKE '%GEN%';
```

| actor_id | first_name | last_name | last_update |
|----------|------------|-----------|---------------------|
| 14 | VIVIEN | BERGEN | 2006-02-15 04:34:33 |
| 41 | JODIE | DEGENERES | 2006-02-15 04:34:33 |
| 107 | GINA | DEGENERES | 2006-02-15 04:34:33 |
| 166 | NICK | DEGENERES | 2006-02-15 04:34:33 |

```
4 rows in set (0.14 sec)
```

```
mysql> _
```

3. Using IN, display the country_id and country columns of the following countries: Afghanistan, Bangladesh, and China:

```
mysql> SELECT country_id, country
-> FROM country
-> WHERE country IN ('Afghanistan', 'Bangladesh', 'China');
```

| country_id | country |
|------------|-------------|
| 1 | Afghanistan |
| 12 | Bangladesh |
| 23 | China |

```
3 rows in set (0.00 sec)
```

```
mysql>
```

4. List the last names of actors, as well as how many actors have that last name.

```
mysql> SELECT last_name, COUNT(*) AS actor_count
-> FROM actor
-> GROUP BY last_name
-> ORDER BY actor_count DESC, last_name;
```

| last_name | actor_count |
|-----------|-------------|
| KILMER | 5 |
| NOLTE | 4 |
| TEMPLE | 4 |
| AKROYD | 3 |
| ALLEN | 3 |
| BERRY | 3 |
| DAVIS | 3 |
| DEGENERES | 3 |
| GARLAND | 3 |
| GUINNESS | 3 |
| HARRIS | 3 |
| HOFFMAN | 3 |
| HOPKINS | 3 |
| JOHANSSON | 3 |
| KEITEL | 3 |
| PECK | 3 |
| TORN | 3 |
| WILLIAMS | 3 |
| WILLIS | 3 |
| ZELLWEGER | 3 |
| BAILEY | 2 |
| BENING | 2 |
| BOLGER | 2 |
| BRODY | 2 |
| CAGE | 2 |
| CHASE | 2 |
| CRAWFORD | 2 |
| CRONYN | 2 |
| DEAN | 2 |
| DEE | 2 |
| DENCH | 2 |
| DEPP | 2 |
| DUKAKIS | 2 |
| FAWCETT | 2 |
| GOODING | 2 |

| | | | |
|-------------|---|--------------|---|
| GOODING | 2 | DERN | 1 |
| HACKMAN | 2 | DREYFUSS | 1 |
| HOPPER | 2 | DUNST | 1 |
| JACKMAN | 2 | GABLE | 1 |
| MCCONAUGHEY | 2 | GIBSON | 1 |
| MCKELLEN | 2 | GOLDBERG | 1 |
| MCQUEEN | 2 | GRANT | 1 |
| MONROE | 2 | HAWKE | 1 |
| MOSTEL | 2 | HESTON | 1 |
| NEESON | 2 | HOPE | 1 |
| OLIVIER | 2 | HUDSON | 1 |
| PALTROW | 2 | HUNT | 1 |
| PENN | 2 | HURT | 1 |
| SILVERSTONE | 2 | JOLIE | 1 |
| STREEP | 2 | JOVOVICH | 1 |
| TANDY | 2 | LEIGH | 1 |
| TRACY | 2 | LOLLOBRIGIDA | 1 |
| WAHLBERG | 2 | MALDEN | 1 |
| WEST | 2 | MANSFIELD | 1 |
| WINSLET | 2 | MARX | 1 |
| WOOD | 2 | MCDORMAND | 1 |
| ASTAIRE | 1 | MIRANDA | 1 |
| BACALL | 1 | NICHOLSON | 1 |
| BALE | 1 | PESCI | 1 |
| BALL | 1 | PFEIFFER | 1 |
| BARRYMORE | 1 | PHOENIX | 1 |
| BASINGER | 1 | PINKETT | 1 |
| BERGEN | 1 | PITT | 1 |
| BERGMAN | 1 | POSEY | 1 |
| BIRCH | 1 | PRESLEY | 1 |
| BLOOM | 1 | REYNOLDS | 1 |
| BRIDGES | 1 | RYDER | 1 |
| BULLOCK | 1 | SINATRA | 1 |
| CARREY | 1 | SOBIESKI | 1 |
| CHAPLIN | 1 | STALLONE | 1 |
| CLOSE | 1 | SUVARI | 1 |
| COSTNER | 1 | SWANK | 1 |
| CROWE | 1 | TAUTOU | 1 |
| CRUISE | 1 | TOMEI | 1 |
| CRUZ | 1 | VOIGHT | 1 |
| DAMON | 1 | WALKEN | 1 |
| DAY-LEWIS | 1 | WAYNE | 1 |
| DERN | 1 | WILSON | 1 |

| | |
|--------------|---|
| GRANT | 1 |
| HAWKE | 1 |
| HESTON | 1 |
| HOPE | 1 |
| HUDSON | 1 |
| HUNT | 1 |
| HURT | 1 |
| JOLIE | 1 |
| JOVOVICH | 1 |
| LEIGH | 1 |
| LOLLOBRIGIDA | 1 |
| MALDEN | 1 |
| MANSFIELD | 1 |
| MARX | 1 |
| MCDORMAND | 1 |
| MIRANDA | 1 |
| NICHOLSON | 1 |
| PESCI | 1 |
| PFEIFFER | 1 |
| PHOENIX | 1 |
| PINKETT | 1 |
| PITT | 1 |
| POSEY | 1 |
| PRESLEY | 1 |
| REYNOLDS | 1 |
| RYDER | 1 |
| SINATRA | 1 |
| SOBIESKI | 1 |
| STALLONE | 1 |
| SUVARI | 1 |
| SWANK | 1 |
| TAUTOU | 1 |
| TOMEI | 1 |
| VOIGHT | 1 |
| WALKEN | 1 |
| WAYNE | 1 |
| WILSON | 1 |
| WITHERSPOON | 1 |
| WRAY | 1 |

+-----+

121 rows in set (0.23 sec)

mysql>

5. List last names of actors and the number of actors who have that last name, but only for names that are shared by at least two actors

```
mysql> SELECT last_name, COUNT(*) AS actor_count
-> from actor
-> GROUP BY last_name
-> HAVING actor_count >= 2
-> ORDER BY actor_count DESC, last_name;
```

| last_name | actor_count |
|-----------|-------------|
| KILMER | 5 |
| NOLTE | 4 |
| TEMPLE | 4 |
| AKROYD | 3 |
| ALLEN | 3 |
| BERRY | 3 |
| DAVIS | 3 |
| DEGENERES | 3 |
| GARLAND | 3 |
| GUINNESS | 3 |
| HARRIS | 3 |
| HOFFMAN | 3 |
| HOPKINS | 3 |
| JOHANSSON | 3 |
| KEITEL | 3 |
| PECK | 3 |
| TORN | 3 |
| WILLIAMS | 3 |
| WILLIS | 3 |
| ZELLWEGER | 3 |
| BAILEY | 2 |
| BENING | 2 |
| BOLGER | 2 |
| BRODY | 2 |
| CAGE | 2 |
| CHASE | 2 |
| CRAWFORD | 2 |
| CRONYN | 2 |
| DEAN | 2 |
| DEE | 2 |
| DENCH | 2 |
| DEPP | 2 |

| | |
|-------------|---|
| DEPP | 2 |
| DUKAKIS | 2 |
| FAWCETT | 2 |
| GOODING | 2 |
| HACKMAN | 2 |
| HOPPER | 2 |
| JACKMAN | 2 |
| MCCONAUGHEY | 2 |
| MCKELLEN | 2 |
| MCQUEEN | 2 |
| MONROE | 2 |
| MOSTEL | 2 |
| NEESON | 2 |
| OLIVIER | 2 |
| PALTROW | 2 |
| PENN | 2 |
| SILVERSTONE | 2 |
| STREEP | 2 |
| TANDY | 2 |
| TRACY | 2 |
| WAHLBERG | 2 |
| WEST | 2 |
| WINSLET | 2 |
| WOOD | 2 |

55 rows in set (0.06 sec)

```
mysql> █
```


6. The actor HARPO WILLIAMS was accidentally entered in the actor table as GROUCHO WILLIAMS. Write a query to fix the record.

```
mysql> UPDATE actor
  -> SET first_name = 'HARPO', last_name = 'WILLIAMS'
  -> WHERE first_name = 'GROUCHO' AND last_name = 'WILLIAMS';
Query OK, 1 row affected (1.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM actor WHERE first_name = 'HARPO' AND last_name = 'WILLIAMS';
+-----+-----+-----+-----+
| actor_id | first_name | last_name | last_update |
+-----+-----+-----+-----+
|      172 | HARPO      | WILLIAMS  | 2024-03-12 15:11:33 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

7. Use JOIN to display the first and last names, as well as the address, of each staff member. Use the tables staff and address:

```
mysql> SELECT
  -> staff.first_name,
  -> staff.last_name,
  -> address.address
  -> FROM
  -> staff
  -> JOIN address ON staff.address_id = address.address_id;
+-----+-----+-----+
| first_name | last_name | address |
+-----+-----+-----+
| Mike       | Hillyer   | 23 Workhaven Lane |
| Jon        | Stephens  | 1411 Lillydale Drive |
+-----+-----+-----+
2 rows in set (0.33 sec)

mysql> _
```

8. List each film and the number of actors who are listed for that film. Use tables film_actor and film. Use inner join.

| | | | | | |
|--|---------------------|-------------|---------------------------|------------------------|----|
| mysql> SELECT | | | 827 | SPICE SORORITY | 11 |
| -> film.film_id, | | | 830 | SPIRIT FLINTSTONES | 11 |
| -> film.title, | | | 858 | SUBMARINE BED | 11 |
| -> COUNT(film_actor.actor_id) AS actor_count | | | 880 | TELEMARK HEARTBREAKERS | 11 |
| -> FROM | | | 1 | ACADEMY DINOSAUR | 10 |
| -> film | | | 67 | BERETS AGENT | 10 |
| -> INNER JOIN | | | 144 | CHINATOWN GLADIATOR | 10 |
| -> film_actor ON film.film_id = film_actor.film_id | | | 164 | COAST RAINBOW | 10 |
| -> GROUP BY | | | 194 | CROW GREASE | 10 |
| -> film.film_id, | | | 208 | DARES PLUTO | 10 |
| -> film.title | | | 410 | HEAVEN FREEDOM | 10 |
| -> ORDER BY | | | 431 | HOOSIERS BIRDCAGE | 10 |
| -> actor_count DESC, | | | 458 | INDIAN LOVE | 10 |
| -> film.title limit 50; | | | 473 | JACKET FRISCO | 10 |
| +-----+-----+-----+ | | | 540 | LUCKY FLYING | 10 |
| film_id | title | actor_count | 636 | OLEANDER CLUE | 10 |
| +-----+-----+-----+ | | | 688 | POLISH BROOKLYN | 10 |
| 508 | LAMBS CINCINATTI | 15 | 694 | PREJUDICE OLEANDER | 10 |
| 87 | BOONDOCK BALLROOM | 13 | 744 | ROOTS REMEMBER | 10 |
| 146 | CHITTY LOCK | 13 | 758 | SAINTS BRIDE | 10 |
| 188 | CRAZY HOME | 13 | 785 | SHAWSHANK BUBBLE | 10 |
| 249 | DRACULA CRYSTAL | 13 | 832 | SPLASH GUMP | 10 |
| 606 | MUMMY CREATURES | 13 | 833 | SPLENDOR PATTON | 10 |
| 714 | RANDOM GO | 13 | 966 | WEDDING APOLLO | 10 |
| 34 | ARABIA DOGMA | 12 | 967 | WEEKEND PERSONAL | 10 |
| 414 | HELLFIGHTERS SIERRA | 12 | 9 | ALABAMA DEVIL | 9 |
| 517 | LESSON CLEOPATRA | 12 | 25 | ANGELS LIFE | 9 |
| 529 | LONELY ELEPHANT | 12 | +-----+-----+-----+ | | |
| 802 | SKY MIRACLE | 12 | 50 rows in set (0.67 sec) | | |
| 892 | TITANIC BOONDOCK | 12 | mysql> | | |
| 312 | FIDDLER LOST | 11 | | | |
| 342 | FUGITIVE MAGUIRE | 11 | | | |
| 420 | HOLES BRANNIGAN | 11 | | | |
| 453 | IMAGE PRINCESS | 11 | | | |
| 463 | INSTINCT AIRPORT | 11 | | | |
| 553 | MAKER GABLES | 11 | | | |
| 561 | MASK PEACH | 11 | | | |
| 649 | OZ LIAISONS | 11 | | | |
| 680 | PINOCCHIO SIMON | 11 | | | |
| 732 | RINGS HEARTBREAKERS | 11 | | | |
| 827 | SPICE SORORITY | 11 | | | |

9. How many copies of the film Hunchback Impossible exist in the inventory system?

```
mysql> SELECT
->     film.title AS film_title,
->     COUNT(inventory.inventory_id) AS copy_count
-> FROM
->     film
-> JOIN
->     inventory ON film.film_id = inventory.film_id
-> WHERE
->     film.title = 'Hunchback Impossible'
-> GROUP BY
->     film.title;
```

| film_title | copy_count |
|----------------------|------------|
| HUNCHBACK IMPOSSIBLE | 6 |

1 row in set (0.27 sec)

```
mysql> _
```

10. Using the tables payment and customer and the JOIN command, list the total paid by each customer. List the customers alphabetically by last name

```
mysql> SELECT
->     customer.last_name,
->     customer.first_name,
->     SUM(payment.amount) AS total_paid
-> FROM
->     customer
-> JOIN
->     payment ON customer.customer_id = payment.customer_id
-> GROUP BY
->     customer.customer_id
-> ORDER BY
->     customer.last_name,
->     customer.first_name limit 25;
```

| last_name | first_name | total_paid |
|-----------|------------|------------|
| ABNEY | RAFAEL | 97.79 |
| ADAM | NATHANIEL | 133.72 |
| ADAMS | KATHLEEN | 92.73 |
| ALEXANDER | DIANA | 105.73 |
| ALLARD | GORDON | 160.68 |
| ALLEN | SHIRLEY | 126.69 |
| ALVAREZ | CHARLENE | 114.73 |
| ANDERSON | LISA | 106.76 |
| ANDREW | JOSE | 96.75 |
| ANDREWS | IDA | 76.77 |
| AQUINO | OSCAR | 99.80 |
| ARCE | HARRY | 157.65 |
| ARCHULETA | JORDAN | 132.70 |
| ARMSTRONG | MELANIE | 92.75 |
| ARNOLD | BEATRICE | 119.74 |
| ARSENAULT | KENT | 134.73 |
| ARTIS | CARL | 106.77 |
| ASHCRAFT | DARRYL | 76.77 |
| ASHER | TYRONE | 112.76 |
| AUSTIN | ALMA | 151.65 |
| BAILEY | MILDRED | 98.75 |
| BAKER | PAMELA | 95.77 |
| BALES | MARTIN | 103.73 |
| BANDA | EVERETT | 110.72 |
| BANKS | JESSIE | 91.74 |

11. The music of Queen and Kris Kristofferson have seen an unlikely resurgence. As an unintended consequence, films starting with the letters **K** and **Q** have also soared in popularity. Use subqueries to display the titles of movies starting with the letters **K** and **Q** whose language is English.

```
mysql> SELECT title FROM film
-> WHERE language_id IN
-> (SELECT language_id
-> FROM language
-> WHERE name = "English")
-> AND (title LIKE "K%") OR (title LIKE "Q%");
```

| title |
|------------------|
| KANE EXORCIST |
| KARATE MOON |
| KENTUCKIAN GIANT |
| KICK SAVANNAH |
| KILL BROTHERHOOD |
| KILLER INNOCENT |
| KING EVOLUTION |
| KISS GLORY |
| KISSING DOLLS |
| KNOCK WARLOCK |
| KRAMER CHOCOLATE |
| KWAI HOMEWARD |
| QUEEN LUKE |
| QUEST MUSSOLINI |
| QUILLS BULL |

15 rows in set (0.08 sec)

```
mysql> █
```

12. Use subqueries to display all actors who appear in the film

Alone Trip.

```
mysql> SELECT
->     first_name,
->     last_name
-> FROM
->     actor
-> WHERE
->     actor_id IN
->         (SELECT actor_id FROM film_actor
->           WHERE film_id IN
->             (SELECT film_id FROM film
->               WHERE title = "Alone Trip"));
```

| first_name | last_name |
|------------|-----------|
| ED | CHASE |
| KARL | BERRY |
| UMA | WOOD |
| WOODY | JOLIE |
| SPENCER | DEPP |
| CHRIS | DEPP |
| LAURENCE | BULLOCK |
| RENEE | BALL |

8 rows in set (0.18 sec)

```
mysql> _
```

13. You want to run an email marketing campaign in Canada, for which you will need the names and email addresses of all Canadian customers. Use joins to retrieve this information.

```
mysql> SELECT
->     country,
->     first_name,
->     last_name,
->     email
-> FROM
->     country c
-> LEFT JOIN
->     customer cu ON c.country_id = cu.customer_id
-> WHERE
->     country = "Canada";
```

| country | first_name | last_name | email |
|---------|------------|-----------|------------------------------------|
| Canada | SHARON | ROBINSON | SHARON.ROBINSON@sakilacustomer.org |

1 row in set (0.09 sec)

```
mysql> _
```

14. Sales have been lagging among young families, and you wish to target all family movies for a promotion. Identify all movies categorized as family films.

```
mysql> SELECT
->   film.title
-> FROM
->   film
-> JOIN
->   film_category ON film.film_id = film_category.film_id
-> JOIN
->   category ON film_category.category_id = category.category_id
-> WHERE
->   category.name = 'Family';
```

| title |
|-----------------------|
| AFRICAN EGG |
| APACHE DIVINE |
| ATLANTIS CAUSE |
| BAKED CLEOPATRA |
| BANG KWAI |
| BEDAZZLED MARRIED |
| BILKO ANONYMOUS |
| BLANKET BEVERLY |
| BLOOD ARGONAUTS |
| BLUES INSTINCT |
| BRAVEHEART HUMAN |
| CHASING FIGHT |
| CHISUM BEHAVIOR |
| CHOCOLAT HARRY |
| CONFUSED CANDLES |
| CONVERSATION DOWNHILL |
| DATE SPEED |
| DINOSAUR SECRETARY |
| DUMBO LUST |
| EARRING INSTINCT |
| EFFECT GLADIATOR |
| FEUD FROGMEN |
| FINDING ANACONDA |
| GABLES METROPOLIS |
| GANDHI KWAI |
| GLADIATOR WESTWARD |
| GREASE YOUTH |
| HALF OUTFIELD |

| |
|------------------------|
| HALF OUTFIELD |
| HOCUS FRIDA |
| HOMICIDE PEACH |
| HOUSE DYNAMITE |
| HUNTING MUSKETEERS |
| INDIAN LOVE |
| JASON TRAP |
| JEDI BENEATH |
| KILLER INNOCENT |
| KING EVOLUTION |
| LOLITA WORLD |
| LOUISIANA HARRY |
| MAGUIRE APACHE |
| MANCHURIAN CURTAIN |
| MOVIE SHAKESPEARE |
| MUSIC BOONDOCK |
| NATURAL STOCK |
| NETWORK PEAK |
| ODDS BOOGIE |
| OPPOSITE NECKLACE |
| PILOT HOOSIERS |
| PITTSBURGH HUNCHBACK |
| PRESIDENT BANG |
| PRIX UNDEFEATED |
| RAGE GAMES |
| RANGE MOONWALKER |
| REMEMBER DIARY |
| RESURRECTION SILVERADO |
| ROBBERY BRIGHT |
| RUSH GOODFELLAS |
| SECRETS PARADISE |
| SENSIBILITY REAR |
| SIEGE MADRE |
| SLUMS DUCK |
| SOUP WISDOM |
| SPARTACUS CHEAPER |
| SPINAL ROCKY |
| SPLASH GUMP |
| SUNSET RACER |
| SUPER WYOMING |
| VIRTUAL SPOILERS |
| WILLOW TRACY |

15. Create a Stored procedure to get the count of films in the input category (IN category_name, OUT count)

```
mysql> DELIMITER ;
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetFilmCountInCategory(
->     IN category_name VARCHAR(255),
->     OUT film_count INT
-> )
-> BEGIN
->     SELECT COUNT(*) INTO film_count
->     FROM film
->     JOIN film_category ON film.film_id = film_category.film_id
->     JOIN category ON film_category.category_id = category.category_id
->     WHERE category.name = category_name;
-> END //
Query OK, 0 rows affected (1.47 sec)

mysql> DELIMITER ;
mysql> CALL GetFilmCountInCategory('Family', @film_count);
Query OK, 1 row affected (0.44 sec)

mysql> SELECT @film_count AS film_count;
+-----+
| film_count |
+-----+
|          69 |
+-----+
1 row in set (0.00 sec)

mysql>
```

16. Display the most frequently rented movies in descending order.

```
mysql> SELECT
->     film.title AS movie_title,
->     COUNT(rental.rental_id) AS rental_count
-> FROM
->     film
-> JOIN
->     inventory ON film.film_id = inventory.film_id
-> JOIN
->     rental ON inventory.inventory_id = rental.inventory_id
-> GROUP BY
->     film.title
-> ORDER BY
->     rental_count DESC;
```

| movie_title | rental_count |
|------------------------|--------------|
| BUCKET BROTHERHOOD | 34 |
| ROCKETEER MOTHER | 33 |
| FORWARD TEMPLE | 32 |
| GRIT CLOCKWORK | 32 |
| JUGGLER HARDLY | 32 |
| RIDGEMONT SUBMARINE | 32 |
| SCALAWAG DUCK | 32 |
| APACHE DIVINE | 31 |
| GOODFELLAS SALUTE | 31 |
| HOBBIT ALIEN | 31 |
| NETWORK PEAK | 31 |
| ROBBERS JOON | 31 |
| RUSH GOODFELLAS | 31 |
| TIMBERLAND SKY | 31 |
| WIFE TURN | 31 |
| ZORRO ARK | 31 |
| BUTTERFLY CHOCOLAT | 30 |
| CAT CONEHEADS | 30 |
| DOGMA FAMILY | 30 |
| ENGLISH BULWORTH | 30 |
| FROST HEAD | 30 |
| GRAFFITI LOVE | 30 |
| HARRY IDAHO | 30 |
| IDOLS SNATCHERS | 30 |
| MARRIED GO | 30 |
| MASSACRE USUAL | 30 |
| MASSACRE USUAL | 30 |
| MUSCLE BRIGHT | 30 |
| PULP BEVERLY | 30 |
| RUGRATS SHAKESPEARE | 30 |
| SHOCK CABIN | 30 |
| SUSPECTS QUILLS | 30 |
| WITCHES PANIC | 30 |
| BINGO TALENTED | 29 |
| BOOGIE AMELIE | 29 |
| CONFIDENTIAL INTERVIEW | 29 |
| DEER VIRGINIAN | 29 |
| ENEMY ODDS | 29 |
| FAMILY SWEET | 29 |
| GLEAMING JAWBREAKER | 29 |
| GREATEST NORTH | 29 |
| MOON BUNCH | 29 |
| STORM HAPPINESS | 29 |
| SWEETHEARTS SUSPECTS | 29 |
| TALENTED HOMICIDE | 29 |
| TITANS JERK | 29 |
| VIDEOTAPE ARSENIC | 29 |
| VIRGINIAN PLUTO | 29 |
| CLOSER BANG | 28 |
| EXPENDABLE STALLION | 28 |
| FATAL HAUNTED | 28 |
| GIANT TROOPERS | 28 |
| GILMORE BOILED | 28 |
| HANDICAP BOONDOCK | 28 |
| ROSES TREASURE | 28 |
| SATURDAY LAMBS | 28 |
| STORY SIDE | 28 |
| TRIP NEWTON | 28 |
| VOYAGE LEGALLY | 28 |
| BLACKOUT PRIVATE | 27 |
| CAMELOT VACATION | 27 |
| CHANCE RESURRECTION | 27 |
| CURTAIN VIDEOTAPE | 27 |
| DANCING FEVER | 27 |
| DETECTIVE VISION | 27 |
| DORADO NOTTING | 27 |
| FORRESTER COMANCHEROS | 27 |
| GANGS PRIDE | 27 |
| GOLDMINE TYCOON | 27 |

17. Write a query to display for each store its store ID, city, and country.

```
mysql> SELECT
->     store.store_id,
->     city.city,
->     country.country
-> FROM
->     store
-> JOIN
->     address ON store.address_id = address.address_id
-> JOIN
->     city ON address.city_id = city.city_id
-> JOIN
->     country ON city.country_id = country.country_id;
```

| store_id | city | country |
|----------|------------|-----------|
| 1 | Lethbridge | Canada |
| 2 | Woodridge | Australia |

2 rows in set (0.48 sec)

```
mysql> _
```


18. List the genres and its gross revenue.

```
mysql> SELECT
->     category.name AS genre,
->     SUM(payment.amount) AS gross_revenue
-> FROM
->     category
-> JOIN
->     film_category ON category.category_id = film_category.category_id
-> JOIN
->     film ON film_category.film_id = film.film_id
-> JOIN
->     inventory ON film.film_id = inventory.film_id
-> JOIN
->     rental ON inventory.inventory_id = rental.inventory_id
-> JOIN
->     payment ON rental.rental_id = payment.rental_id
-> GROUP BY
->     category.name
-> ORDER BY
->     gross_revenue DESC;
```

| genre | gross_revenue |
|-------------|---------------|
| Sports | 5314.21 |
| Sci-Fi | 4756.98 |
| Animation | 4656.30 |
| Drama | 4587.39 |
| Comedy | 4383.58 |
| Action | 4375.85 |
| New | 4351.62 |
| Games | 4281.33 |
| Foreign | 4270.67 |
| Family | 4226.07 |
| Documentary | 4217.52 |
| Horror | 3722.54 |
| Children | 3655.55 |
| Classics | 3639.59 |
| Travel | 3549.64 |
| Music | 3417.72 |

16 rows in set (1.02 sec)

```
mysql>
```

19. Create a View for the above query(18)

```
mysql> CREATE VIEW GenreGrossRevenueView AS
-> SELECT
->     category.name AS genre,
->     SUM(payment.amount) AS gross_revenue
-> FROM
->     category
-> JOIN
->     film_category ON category.category_id = film_category.category_id
-> JOIN
->     film ON film_category.film_id = film.film_id
-> JOIN
->     inventory ON film.film_id = inventory.film_id
-> JOIN
->     rental ON inventory.inventory_id = rental.inventory_id
-> JOIN
->     payment ON rental.rental_id = payment.rental_id
-> GROUP BY
->     category.name
-> ORDER BY
->     gross_revenue DESC;
Query OK, 0 rows affected (1.76 sec)
```

```
mysql> SELECT * FROM GenreGrossRevenueView;
```

| genre | gross_revenue |
|-------------|---------------|
| Sports | 5314.21 |
| Sci-Fi | 4756.98 |
| Animation | 4656.30 |
| Drama | 4587.39 |
| Comedy | 4383.58 |
| Action | 4375.85 |
| New | 4351.62 |
| Games | 4281.33 |
| Foreign | 4270.67 |
| Family | 4226.07 |
| Documentary | 4217.52 |
| Horror | 3722.54 |
| Children | 3655.55 |
| Classics | 3639.59 |
| Travel | 3549.64 |
| Music | 3417.72 |

20. Select top 5 genres in gross revenue view.

```
mysql> SELECT * FROM GenreGrossRevenueView
-> ORDER BY gross_revenue DESC
-> LIMIT 5;
```

| genre | gross_revenue |
|-----------|---------------|
| Sports | 5314.21 |
| Sci-Fi | 4756.98 |
| Animation | 4656.30 |
| Drama | 4587.39 |
| Comedy | 4383.58 |

5 rows in set (0.21 sec)

```
mysql>
```