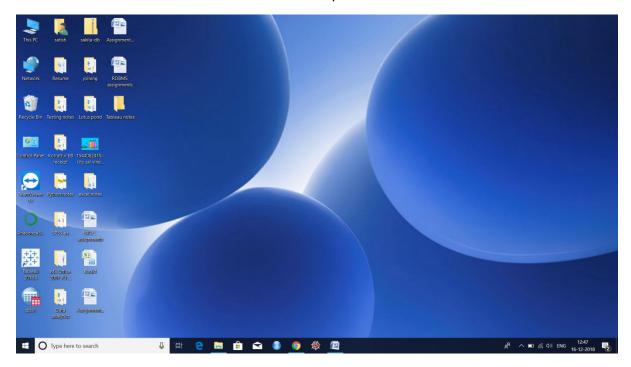
Task 1

Set up/Install the database sakila. The database will be used for next MySQL Assignments as well. Refer the Links given above for help in setting up the database.

Downloaded Sakila database from the links to desktop



Moved Sakila databse into MySql

Task 2

1. What are the names of all the countries in the databases which start with the letter "B" (Sorted by their names)?

2. Return the first names (sorted) of all the actors with the last name "berry".

3. Find all the films whose length is more than 184 (inclusive). Order the results by the length (and for films with the same length order them by their name). Return their title and the length.

| mysql> select title,length from film -> where length >=184 -> order by length; | | | |
|--------------------------------------------------------------------------------|------------|--|--|
| title | length | | |
| CONSPIRACY SPIRIT | 184 | | |
| CRYSTAL BREAKING | 184 | | |
| KING EVOLUTION | 184 | | |
| MOONWALKER FOOL | 184 | | |
| SMOOCHY CONTROL | 184 | | |
| SONS INTERVIEW | 184 | | |
| SORORITY QUEEN | 184 | | |
| THEORY MERMAID | 184 | | |
| CHICAGO NORTH | 185 | | |
| CONTROL ANTHEM | 185 | | |
| DARN FORRESTER | 185 | | |
| GANGS PRIDE | 185 | | |
| HOME PITY | 185 | | |
| MUSCLE BRIGHT | 185 | | |
| POND SEATTLE | 185 | | |
| SOLDIERS EVOLUTION | 185 | | |
| SWEET BROTHERHOOD | 185 | | |
| WORST BANGER | 185 | | |
| +18 rows in set (0.00 s | ++ sec) | | |

Task 3

1. Return the categories (names) of the longest film. NOTE that there may be several "longest" films (i.e. with the same length), so you might need to return more than one category. Return the duration as well.

```
nysql> select category,length,duration from film_lst where length = (select max(length) from film_lst);
category | length | duration |
 Games
 Comedy
                185
Action
                185
 Animation
                185
 Music
 Travel
 Animation
 Sci-Fi
                185
 Travel
                185
 Action
                185
l0 rows in set, 1 warning (0.04 sec)
```

2. Find the movies whose total number of actors is above the average. Return the movie names And its number of actors ordered by the title. IMPORTANT NOTE: this query should return many movies. Please write in your submission only the first TOP-10 results.

Ans: In the tables there is no column with number of actors. Hence average cannot be found. Hence movie names and its number of actors ordered by the title cannot be found.

3. Who is the customer who spent the most on rental movies? Return his/her customer id, first name and the amount spent.

Most on rental movies = max rental rate. Amount spent = rental rate

mysql> select customer id,first name,rental rate from customer rental where rental rate = (select max(rental rate) from customer rental); customer_id | first_name | rental_rate | 2 | PATRICIA 7 | MARIA 4.99 8 SUSAN 4.99 4.99 10 DOROTHY 13 | KAREN 4.99 4.99 20 | SHARON 4.99 21 | MICHELLE 28 | CYNTHIA 4.99 31 | BRENDA 4.99 32 | AMY 4.99 4.99 44 | MARIE 45 JANET 4.99 4.99 46 | CATHERINE 47 | FRANCES 4.99 48 ANN 4.99 4.99 60 | MILDRED 61 | KATHERINE 4.99 4.99 65 ROSE 68 | NICOLE 4.99 70 | CHRISTINA 4.99 4.99 71 KATHY 74 | DENISE 4.99 75 | TAMMY 4.99 JANE 4.99 ANDREA 4.99 81 4.99 84 SARA JACQUELINE 4.99 86 88 | BONNIE 4.99 92 | TINA 4.99 PHYLLIS 4.99 93 PAULA 4.99 98 | LILLIAN 4.99 100 ROBIN 4.99 102 | CRYSTAL 4.99 103 GLADYS 4.99 112 ROSA 4.99 4.99 113 CINDY 117 EDITH 4.99 120 | SYLVIA 4.99 4.99 123 | SHANNON 124 | SHEILA 4.99 4.99 126 ELLEN 127 ELAINE 4.99 131 | MONICA 4.99 133 | PAULINE 4.99

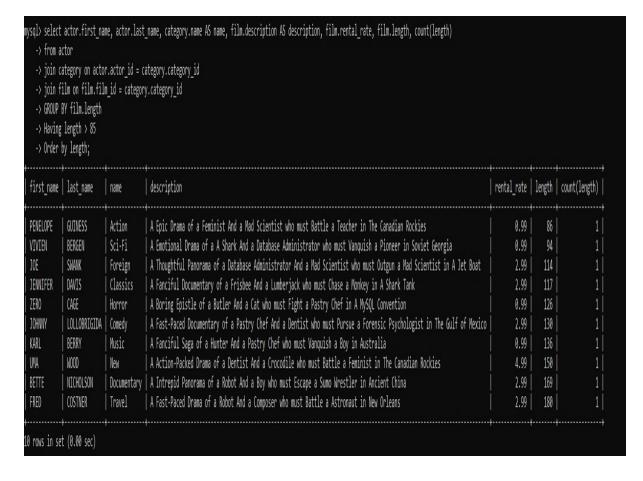
| 133 | PAULINE | 4.99 | |
|-----|-----------|------|--|
| | EMMA | 4.99 | |
| | AMBER | 4.99 | |
| 141 | DEBBIE | 4.99 | |
| 144 | | 4.99 | |
| 145 | LUCILLE | 4.99 | |
| 151 | MEGAN | 4.99 | |
| : | BERTHA | 4.99 | |
| 159 | JILL | 4.99 | |
| 161 | GERALDINE | 4.99 | |
| 165 | LORRAINE | 4.99 | |
| | SALLY | 4.99 | |
| 170 | BEATRICE | 4.99 | |
| 171 | DOLORES | 4.99 | |
| 172 | BERNICE | 4.99 | |
| 173 | AUDREY | 4.99 | |
| 174 | YVONNE | 4.99 | |
| 177 | SAMANTHA | 4.99 | |
| 179 | DANA | 4.99 | |
| 182 | RENEE | 4.99 | |
| 183 | IDA | 4.99 | |
| 190 | YOLANDA | 4.99 | |
| 192 | LAURIE | 4.99 | |
| 195 | VANESSA | 4.99 | |
| 202 | CARLA | 4.99 | |
| 203 | TARA | 4.99 | |
| 207 | GERTRUDE | 4.99 | |
| 210 | ELLA | 4.99 | |
| 211 | STACEY | 4.99 | |
| 212 | WILMA | 4.99 | |
| 214 | KRISTIN | 4.99 | |
| 215 | JESSIE | 4.99 | |
| 216 | NATALIE | 4.99 | |
| 217 | AGNES | 4.99 | |
| 219 | WILLIE | 4.99 | |
| 222 | DELORES | 4.99 | |
| 224 | PEARL | 4.99 | |
| 226 | MAUREEN | 4.99 | |
| 227 | COLLEEN | 4.99 | |
| 229 | TAMARA | 4.99 | |
| 239 | MINNIE | 4.99 | |
| 243 | LYDIA | 4.99 | |
| 244 | VIOLA | 4.99 | |
| 246 | MARIAN | 4.99 | |
| 248 | CAROLINE | 4.99 | |
| 251 | VICKIE | 4.99 | |
| 253 | TERRY | 4.99 | |
| 255 | IRMA | 4.99 | |
| 256 | MABEL | 4.99 | |

| 251 | VICKIE | 4.99 | |
|-----|---------|------|--|
| | TERRY | 4.99 | |
| 255 | IRMA | 4.99 | |
| 256 | MABEL | 4.99 | |
| 260 | CHRISTY | 4.99 | |
| | HILDA | 4.99 | |
| 265 | JENNIE | 4.99 | |
| : | MARGIE | 4.99 | |
| ! | NINA | 4.99 | |
| 271 | PENNY | 4.99 | |
| : | KAY | 4.99 | |
| 276 | BRANDY | 4.99 | |
| 277 | OLGA | 4.99 | |
| 278 | BILLIE | 4.99 | |
| 279 | DIANNE | 4.99 | |
| 284 | SONIA | 4.99 | |
| 289 | VIOLET | 4.99 | |
| 294 | SHELLY | 4.99 | |
| : | JOHN | 4.99 | |
| 307 | JOSEPH | 4.99 | |
| 310 | DANIEL | 4.99 | |
| 312 | MARK | 4.99 | |
| | DONALD | 4.99 | |
| 316 | STEVEN | 4.99 | |
| 320 | ANTHONY | 4.99 | |
| 321 | KEVIN | 4.99 | |
| 323 | MATTHEW | 4.99 | |
| 324 | GARY | 4.99 | |
| 327 | LARRY | 4.99 | |
| | SCOTT | 4.99 | |
| 334 | RAYMOND | 4.99 | |
| 336 | JOSHUA | 4.99 | |
| 338 | DENNIS | 4.99 | |
| | PATRICK | 4.99 | |
| : | HAROLD | 4.99 | |
| : | ARTHUR | 4.99 | |
| 347 | RYAN | 4.99 | |
| | JUAN | 4.99 | |
| : | JUSTIN | 4.99 | |
| | WILLIE | 4.99 | |
| 365 | BRUCE | 4.99 | |
| 369 | FRED | 4.99 | |
| 371 | BILLY | 4.99 | |
| | STEVE | 4.99 | |
| 381 | BOBBY | 4.99 | |
| 384 | ERNEST | 4.99 | |
| 385 | PHTLLTP | 4.99 | |

| 385 | PHILLIP | 4.99 | |
|-----|-----------|------|--|
| 386 | TODD | 4.99 | |
| 390 | SHAWN | 4.99 | |
| 392 | SEAN | 4.99 | |
| 396 | EARL | 4.99 | |
| 398 | ANTONIO | 4.99 | |
| 403 | MIKE | 4.99 | |
| 405 | LEONARD | 4.99 | |
| 408 | MANUEL | 4.99 | |
| 409 | RODNEY | 4.99 | |
| 411 | NORMAN | 4.99 | |
| 412 | ALLEN | 4.99 | |
| 420 | JACOB | 4.99 | |
| 421 | LEE | 4.99 | |
| 422 | MELVIN | 4.99 | |
| 426 | BRADLEY | 4.99 | |
| 435 | RICKY | 4.99 | |
| 439 | ALEXANDER | 4.99 | |
| 444 | MARCUS | 4.99 | |
| 446 | THEODORE | 4.99 | |
| 451 | JIM | 4.99 | |
| 455 | JON | 4.99 | |
| 456 | RONNIE | 4.99 | |
| 459 | TOMMY | 4.99 | |
| 460 | LEON | 4.99 | |
| 465 | FLOYD | 4.99 | |
| 466 | LE0 | 4.99 | |
| 469 | WESLEY | 4.99 | |
| 470 | GORDON | 4.99 | |
| 472 | GREG | 4.99 | |
| 485 | CLYDE | 4.99 | |
| 486 | GLEN | 4.99 | |
| 487 | HECTOR | 4.99 | |
| 499 | MARC | 4.99 | |
| 500 | REGINALD | 4.99 | |
| 501 | RUBEN | 4.99 | |
| 506 | LESLIE | 4.99 | |
| 508 | MILTON | 4.99 | |
| 510 | BEN | 4.99 | |
| 512 | CECIL | 4.99 | |
| 515 | ANDRE | 4.99 | |
| 518 | GABRIEL | 4.99 | |
| 521 | ROLAND | 4.99 | |
| 527 | CORY | 4.99 | |
| 532 | NEIL | 4.99 | |
| 543 | LANCE | 4.99 | |
| EE1 | CLAVTON | 4 00 | |

| E 43 | LANCE | 1 4 00 1 |
|----------------------------|----------------|----------|
| 543 | LANCE | 4.99 |
| 551 | CLAYTON | 4.99 |
| 556 | ARMANDO | 4.99 |
| 563 | KEN | 4.99 |
| 565 | JAIME | 4.99 |
| 568 | ALBERTO | 4.99 |
| 570 | IVAN | 4.99 |
| 575 | ISAAC | 4.99 |
| 578 | WILLARD | 4.99 |
| 579 | DARYL | 4.99 |
| 580 | ROSS | 4.99 |
| 583 | MARSHALL | 4.99 |
| 587 | SERGIO | 4.99 |
| 588 | MARION | 4.99 |
| 591 | KENT | 4.99 |
| 596 | ENRIQUE | 4.99 |
| 597 | FREDDIE | 4.99 |
| | + | + |
| 197 rows in set (0.01 sec) | | |
| | .5 111 500 (0. | 32 320) |

4. Give an interesting query of your own that is not already in the assignment. The query should involve at least two joins, HAVING clause and aggregation operation. Give the answer.



Give the English explanation:

The above query selects columns first name, last name, category name, film description, film rental rate and film length

From table 1 (Actor)

To combine the output result from three tables, we use **two joins** as below.

le join
Join
Used aggregate operator (count) (under each category name only 1 record is displayed, so count is1)
Used having clause (Having length > 85)