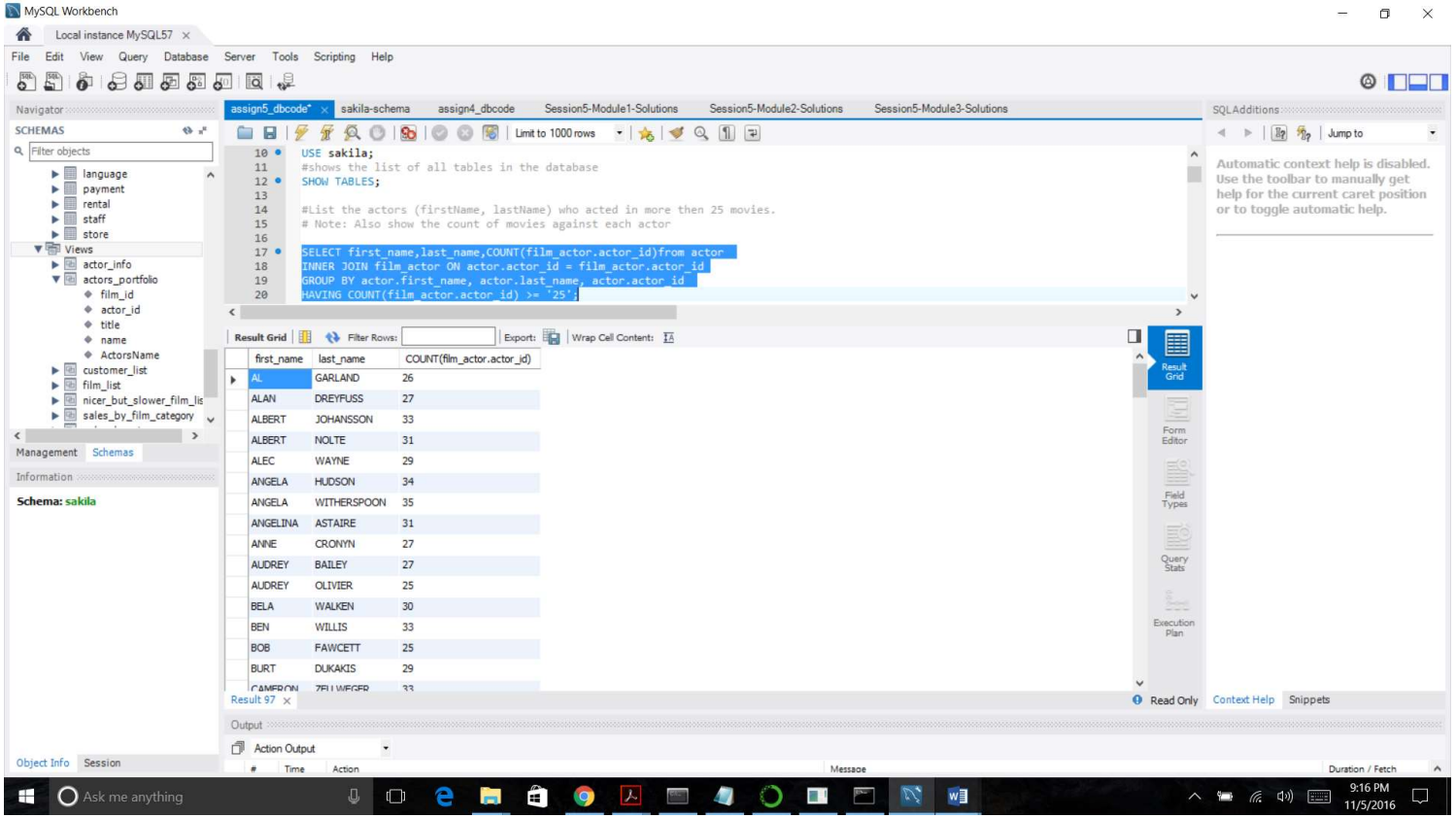
Database Design and Implementation

Manivassakam M

Assignment 5

 # a) List the actors (firstName, lastName) who acted in more than 25 movies.
 # Note: Also, show the count of movies against each actor

```
SELECT first_name,last_name,COUNT(film_actor.actor_id)from actor
INNER JOIN film_actor ON actor.actor_id = film_actor.actor_id
GROUP BY actor.first_name, actor.last_name, actor.actor_id
HAVING COUNT(film_actor.actor_id) >= '25';
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
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Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
10 USE sakila;
11 #shows the list of all tables in the database
12 SHOW TABLES;
13
14 #List the actors (firstName, lastName) who acted in more then 25 movies.
15 # Note: Also show the count of movies against each actor
16
17 SELECT first_name,last_name,COUNT(film_actor.actor_id)from actor
18 INNER JOIN film_actor ON actor.actor_id = film_actor.actor_id
19 GROUP BY actor.first_name, actor.last_name, actor.actor_id
20 HAVING COUNT(film_actor.actor_id) >= '25';
Result Grid Filter Rows: Export: Wrap Cell Content:
first_name last_name COUNT(film_actor.actor_id)
AL GARLAND 26
ALAN DREYFUSS 27
ALBERT JOHANSSON 33
ALBERT NOLTE 31
ALEC WAYNE 29
ANGELA HUDSON 34
ANGELA WITHERSPOON 35
ANGELINA ASTAIRE 31
ANNE CRONYN 27
AUDREY BAILEY 27
AUDREY OLIVIER 25
BELA WALKEN 30
BEN WILLIS 33
BOB FAWCETT 25
BURT DUKAKIS 29
Result Grid
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Query Stats
Execution Plan
Result 97
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Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Ask me anything
9:16 PM
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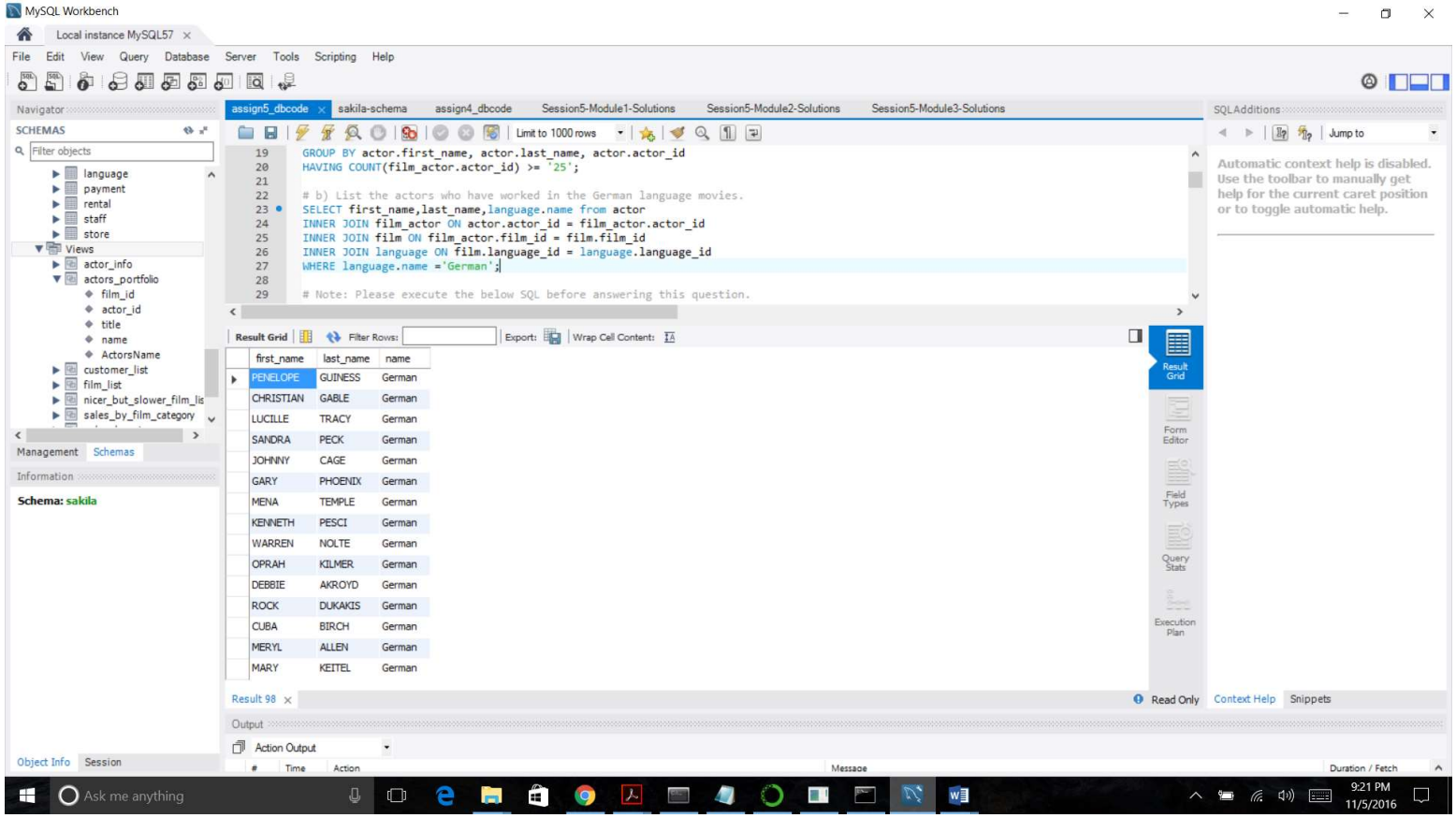
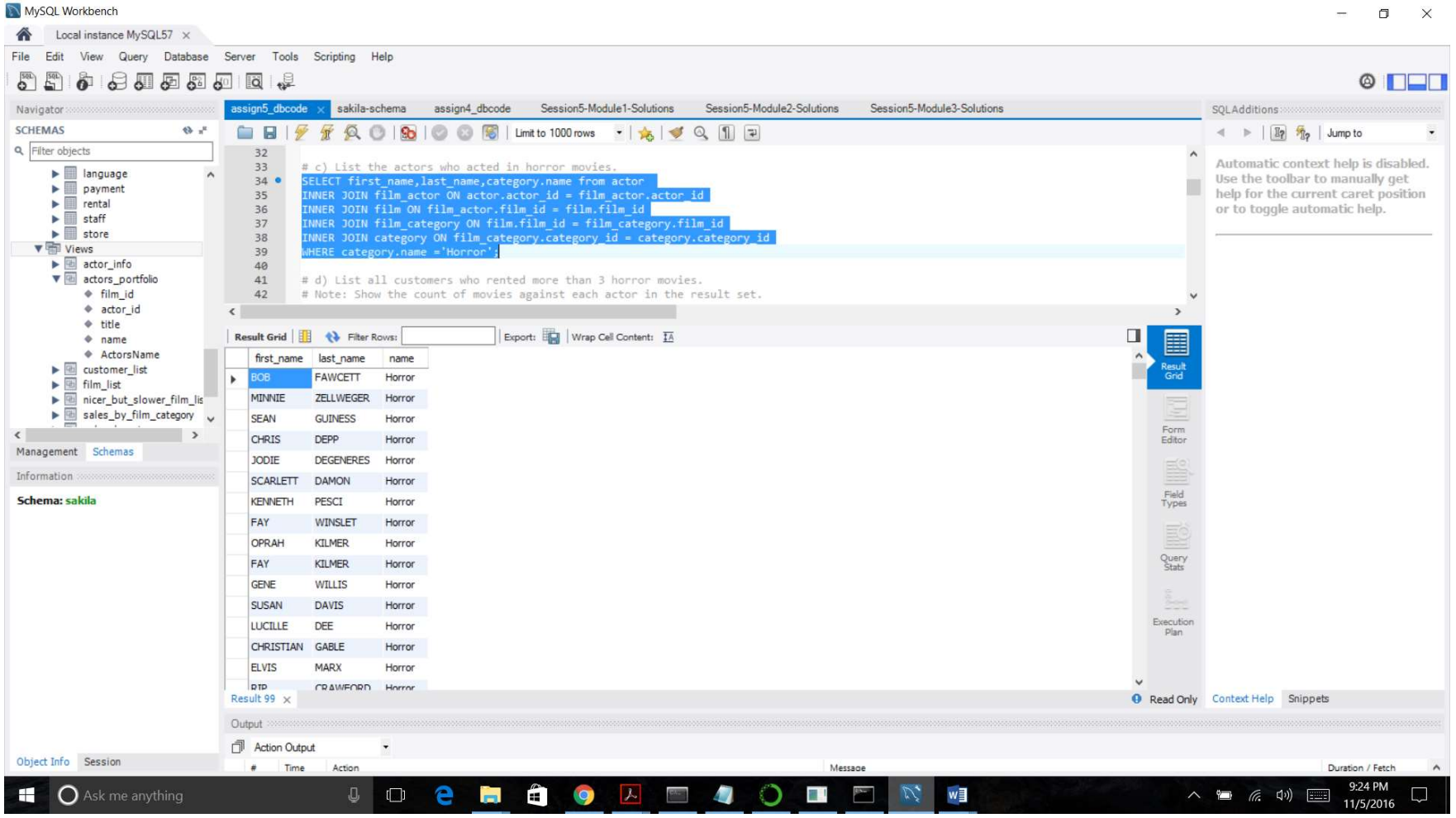
 # b) List the actors who have worked in the German language movies.

```
SELECT first_name,last_name,language.name from actor
INNER JOIN film_actor ON actor.actor_id = film_actor.actor_id
INNER JOIN film ON film_actor.film_id = film.film_id
INNER JOIN language ON film.language_id = language.language_id
WHERE language.name ='German';
```



 # Note: Please execute the below SQL before answering this question.
SET SQL_SAFE_UPDATES=0;
UPDATE film SET language_id=6 WHERE title LIKE "%ACADEMY%";
 # c) List the actors who acted in horror movies.

```
SELECT first_name,last_name,category.name from actor
INNER JOIN film_actor ON actor.actor_id = film_actor.actor_id
INNER JOIN film ON film_actor.film_id = film.film_id
INNER JOIN film_category ON film.film_id = film_category.film_id
INNER JOIN category ON film_category.category_id = category.category_id
WHERE category.name ='Horror';
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
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Filter objects
language
payment
rental
staff
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Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
32
33 # c) List the actors who acted in horror movies.
34 SELECT first_name,last_name,category.name from actor
35 INNER JOIN film_actor ON actor.actor_id = film_actor.actor_id
36 INNER JOIN film ON film_actor.film_id = film.film_id
37 INNER JOIN film_category ON film.film_id = film_category.film_id
38 INNER JOIN category ON film_category.category_id = category.category_id
39 WHERE category.name ='Horror';
40
41 # d) List all customers who rented more than 3 horror movies.
42 # Note: Show the count of movies against each actor in the result set.
Result Grid Filter Rows: Export: Wrap Cell Content:
first_name last_name name
BOB FAWCETT Horror
MINNIE ZELLWEGER Horror
SEAN GUINESS Horror
CHRIS DEPP Horror
JODIE DEGENERES Horror
SCARLETT DAMON Horror
KENNETH PESCI Horror
FAY WINSLET Horror
OPRAH KILMER Horror
FAY KILMER Horror
GENE WILLIS Horror
SUSAN DAVIS Horror
LUCILLE DEE Horror
CHRISTIAN GABLE Horror
ELVIS MARX Horror
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 99
Read Only
Output
Action Output
Time Action Message Duration / Fetch
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Ask me anything
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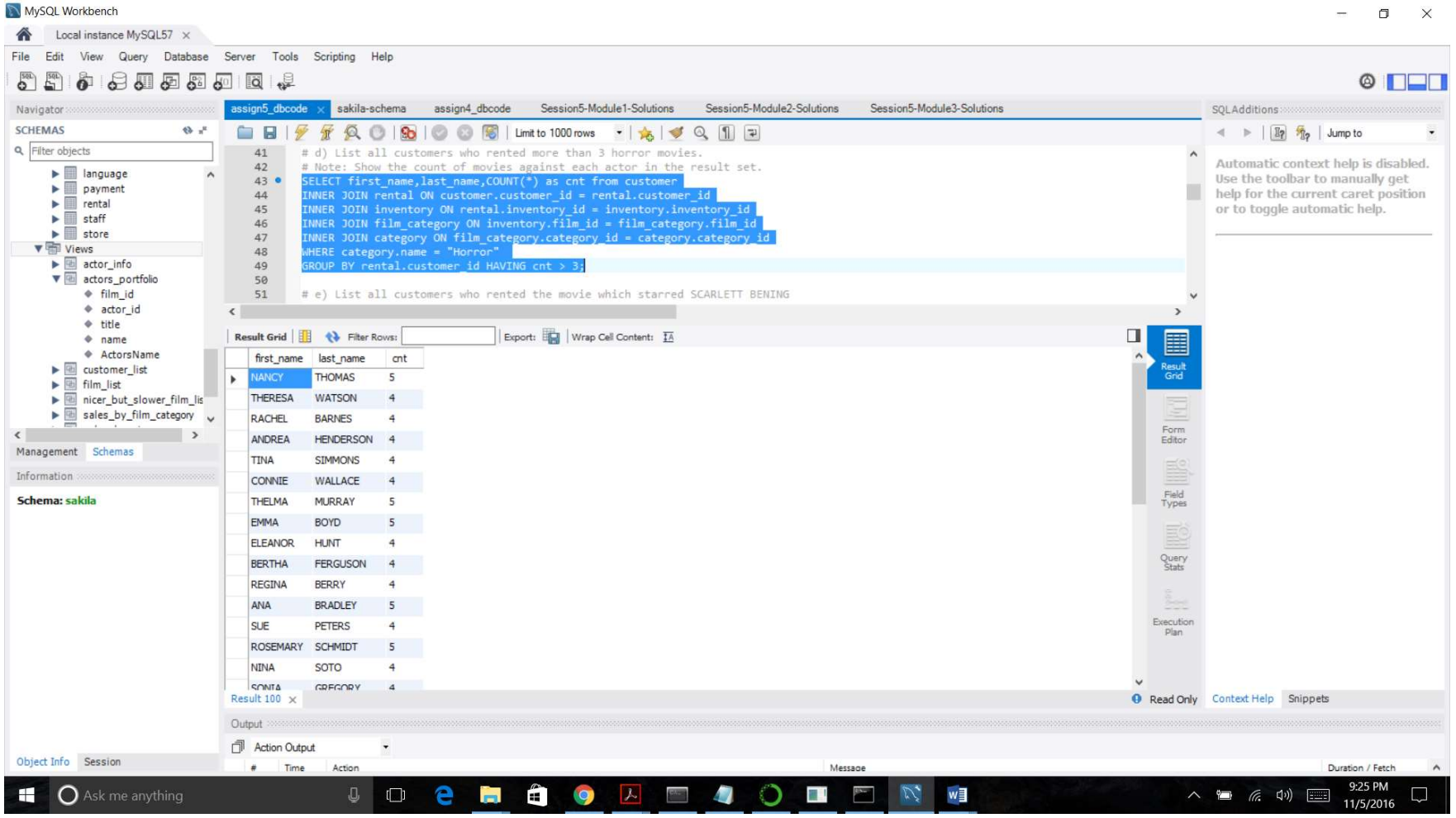
```
# d) List all customers who rented more than 3 horror movies.
# Note: Show the count of movies against each actor in the result set.

SELECT first_name,last_name,COUNT(*) as cnt from customer
INNER JOIN rental ON customer.customer_id = rental.customer_id
INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
INNER JOIN film_category ON inventory.film_id = film_category.film_id
INNER JOIN category ON film_category.category_id = category.category_id
WHERE category.name = "Horror"
GROUP BY rental.customer_id HAVING cnt > 3;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
41 # d) List all customers who rented more than 3 horror movies.
42 # Note: Show the count of movies against each actor in the result set.
43 SELECT first_name,last_name,COUNT(*) as cnt from customer
44 INNER JOIN rental ON customer.customer_id = rental.customer_id
45 INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
46 INNER JOIN film_category ON inventory.film_id = film_category.film_id
47 INNER JOIN category ON film_category.category_id = category.category_id
48 WHERE category.name = "Horror"
49 GROUP BY rental.customer_id HAVING cnt > 3;
50
51 # e) List all customers who rented the movie which starred SCARLETT BENING
Result Grid Filter Rows: Export: Wrap Cell Content:
first_name last_name cnt
NANCY THOMAS 5
THERESA WATSON 4
RACHEL BARNES 4
ANDREA HENDERSON 4
TINA SIMMONS 4
CONNIE WALLACE 4
THELMA MURRAY 5
EMMA BOYD 5
ELEANOR HUNT 4
BERTHA FERGUSON 4
REGINA BERRY 4
ANA BRADLEY 5
SUE PETERS 4
ROSEMARY SCHMIDT 5
NINA SOTO 4
Result 100
Read Only
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
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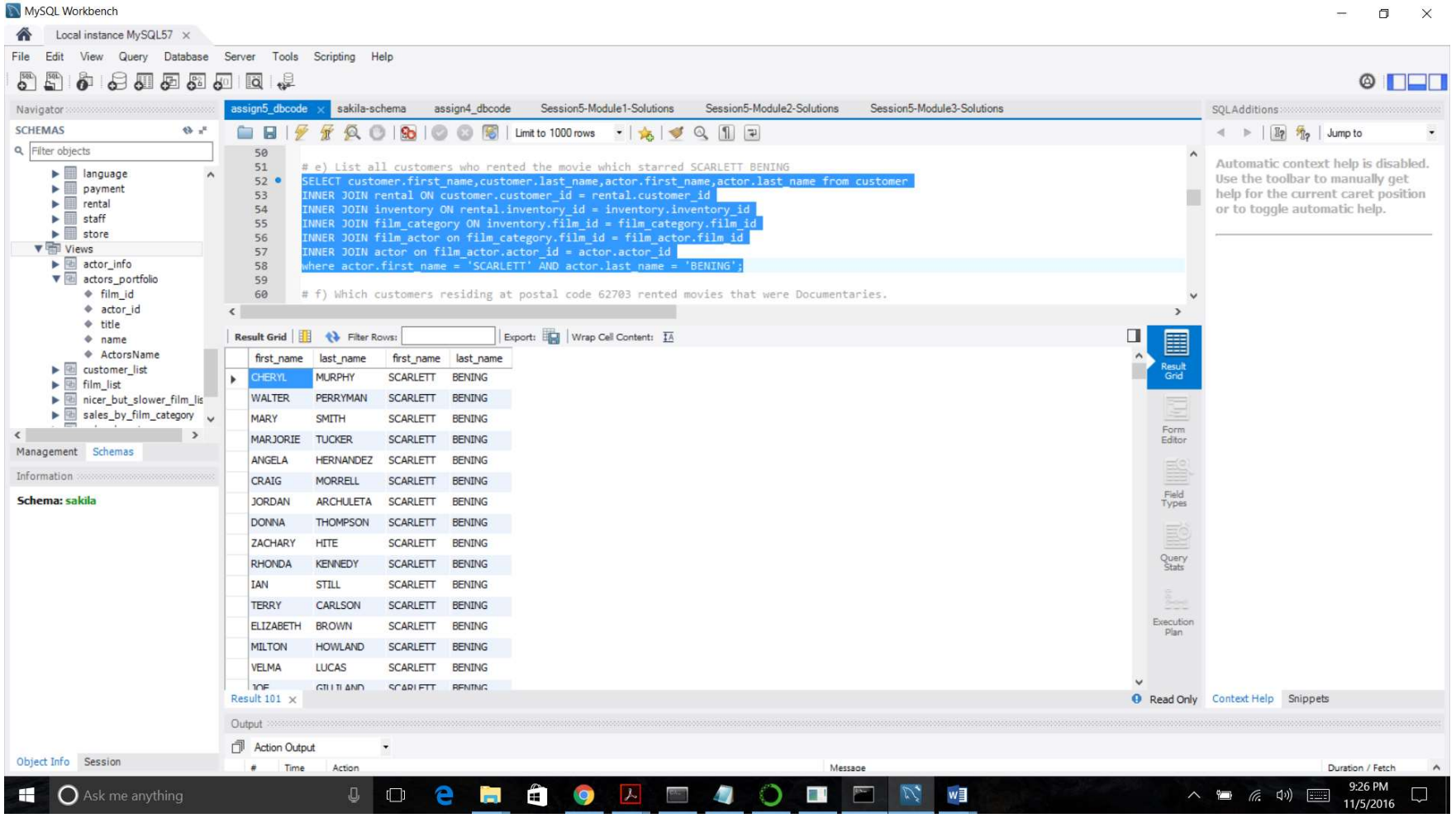
 # e) List all customers who rented the movie which starred SCARLETT BENING

```
SELECT customer.first_name,customer.last_name,actor.first_name,actor.last_name from customer
INNER JOIN rental ON customer.customer_id = rental.customer_id
INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
INNER JOIN film_category ON inventory.film_id = film_category.film_id
INNER JOIN film_actor on film_category.film_id = film_actor.film_id
INNER JOIN actor on film_actor.actor_id = actor.actor_id
where actor.first_name = 'SCARLETT' AND actor.last_name = 'BENING';
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
50
51 # e) List all customers who rented the movie which starred SCARLETT BENING
52 SELECT customer.first_name,customer.last_name,actor.first_name,actor.last_name from customer
53 INNER JOIN rental ON customer.customer_id = rental.customer_id
54 INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
55 INNER JOIN film_category ON inventory.film_id = film_category.film_id
56 INNER JOIN film_actor on film_category.film_id = film_actor.film_id
57 INNER JOIN actor on film_actor.actor_id = actor.actor_id
58 where actor.first_name = 'SCARLETT' AND actor.last_name = 'BENING';
59
60 # f) Which customers residing at postal code 62703 rented movies that were Documentaries.
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
first_name last_name first_name last_name
CHERYL MURPHY SCARLETT BENING
WALTER PERRYMAN SCARLETT BENING
MARY SMITH SCARLETT BENING
MARJORIE TUCKER SCARLETT BENING
ANGELA HERNANDEZ SCARLETT BENING
CRAIG MORRELL SCARLETT BENING
JORDAN ARCHULETA SCARLETT BENING
DONNA THOMPSON SCARLETT BENING
ZACHARY HITE SCARLETT BENING
RHONDA KENNEDY SCARLETT BENING
IAN STILL SCARLETT BENING
TERRY CARLSON SCARLETT BENING
ELIZABETH BROWN SCARLETT BENING
MILTON HOWLAND SCARLETT BENING
VELMA LUCAS SCARLETT BENING
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 101
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
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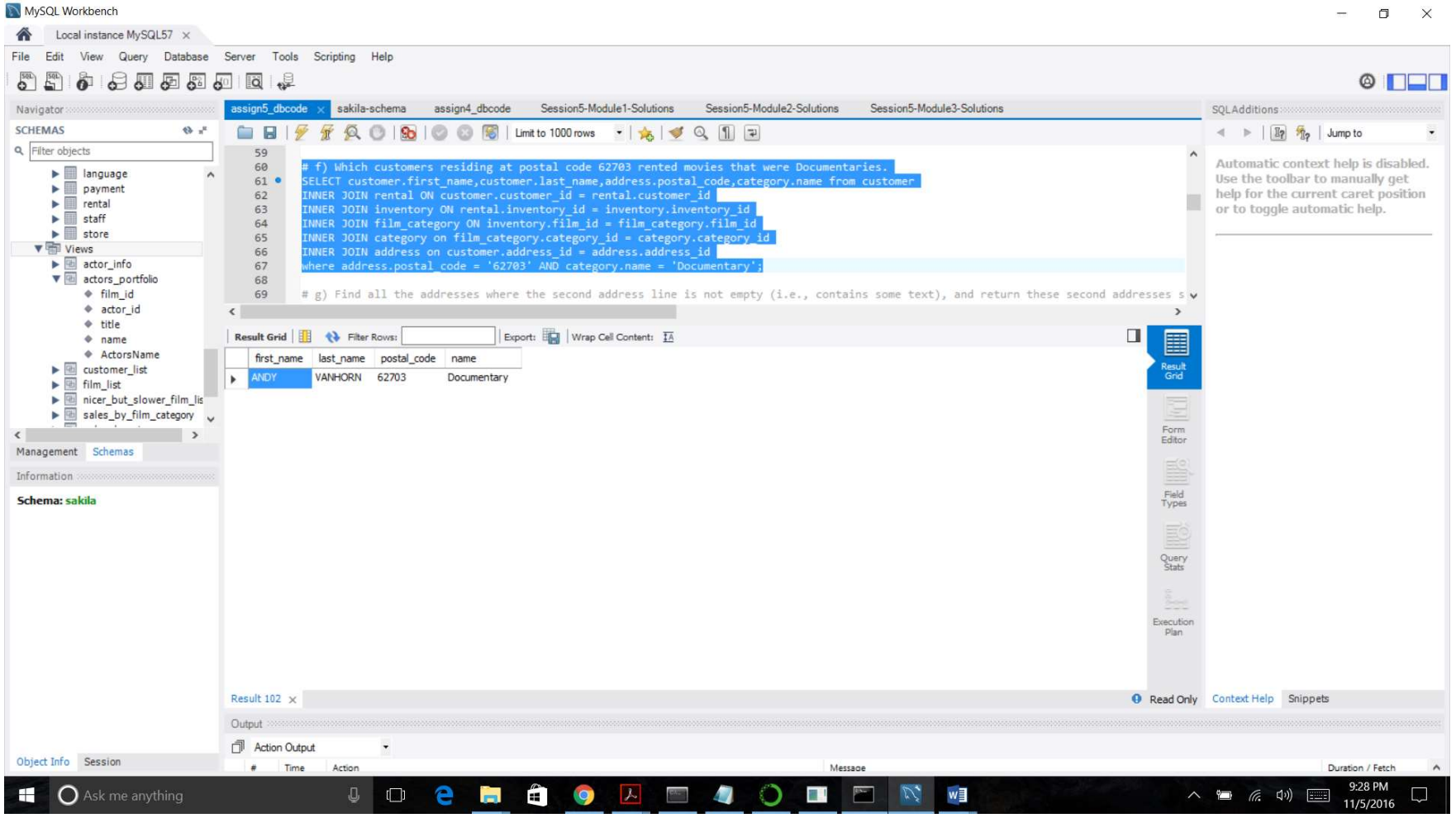
```
# f) Which customers residing at postal code 62703 rented movies that were Documentaries.
SELECT customer.first_name,customer.last_name,address.postal_code,category.name from customer
INNER JOIN rental ON customer.customer_id = rental.customer_id
INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
INNER JOIN film_category ON inventory.film_id = film_category.film_id
INNER JOIN category on film_category.category_id = category.category_id
INNER JOIN address on customer.address_id = address.address_id
where address.postal_code = '62703' AND category.name = 'Documentary';
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
59
60 # f) Which customers residing at postal code 62703 rented movies that were Documentaries.
61 SELECT customer.first_name,customer.last_name,address.postal_code,category.name from customer
62 INNER JOIN rental ON customer.customer_id = rental.customer_id
63 INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
64 INNER JOIN film_category ON inventory.film_id = film_category.film_id
65 INNER JOIN category on film_category.category_id = category.category_id
66 INNER JOIN address on customer.address_id = address.address_id
67 where address.postal_code = '62703' AND category.name = 'Documentary';
68
69 # g) Find all the addresses where the second address line is not empty (i.e., contains some text), and return these second addresses s
Result Grid Filter Rows: Export: Wrap Cell Content:
first_name last_name postal_code name
ANDY VANHORN 62703 Documentary
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 102
Read Only
Output
Action Output
Time Action Message Duration / Fetch
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Ask me anything
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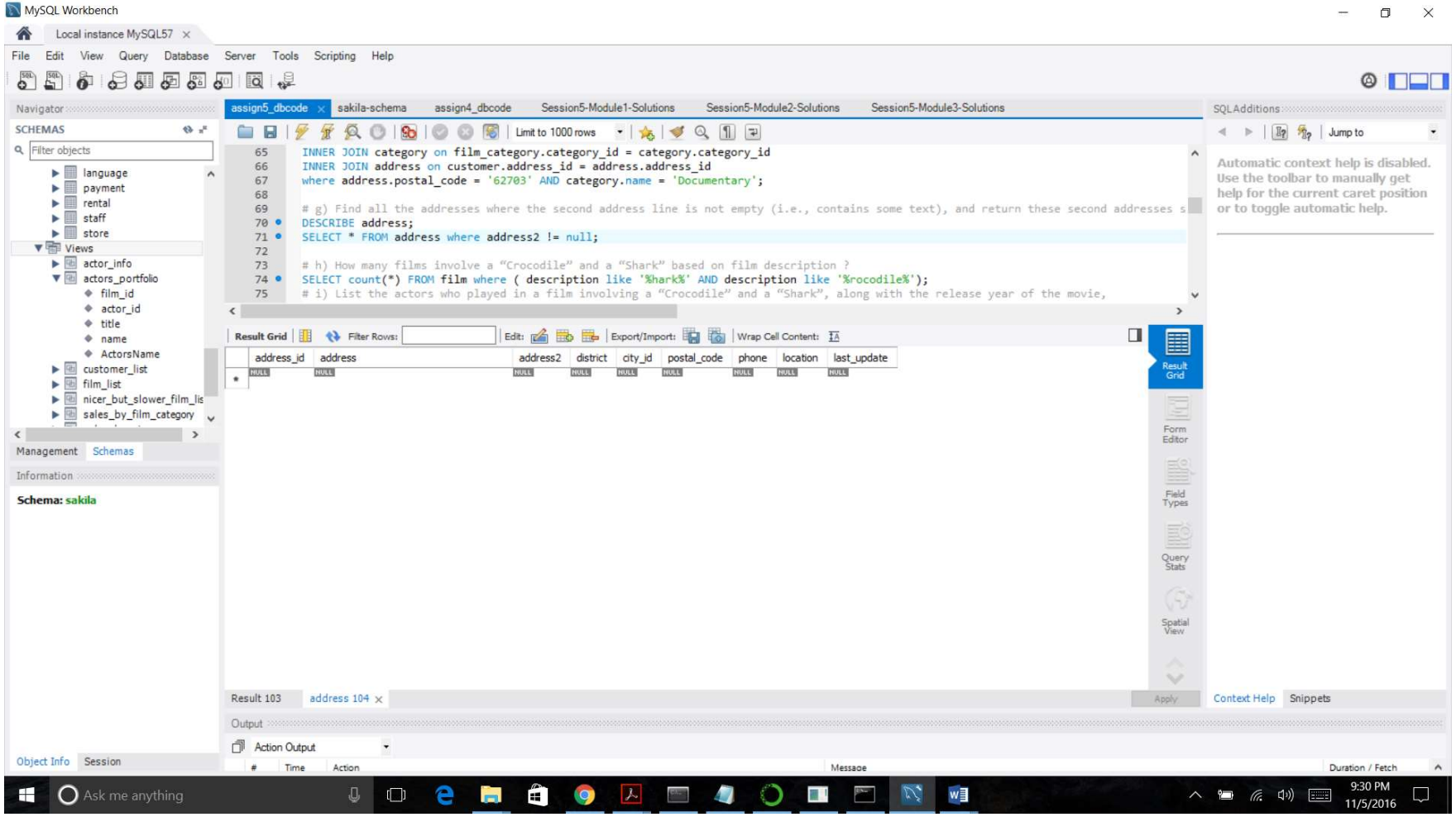
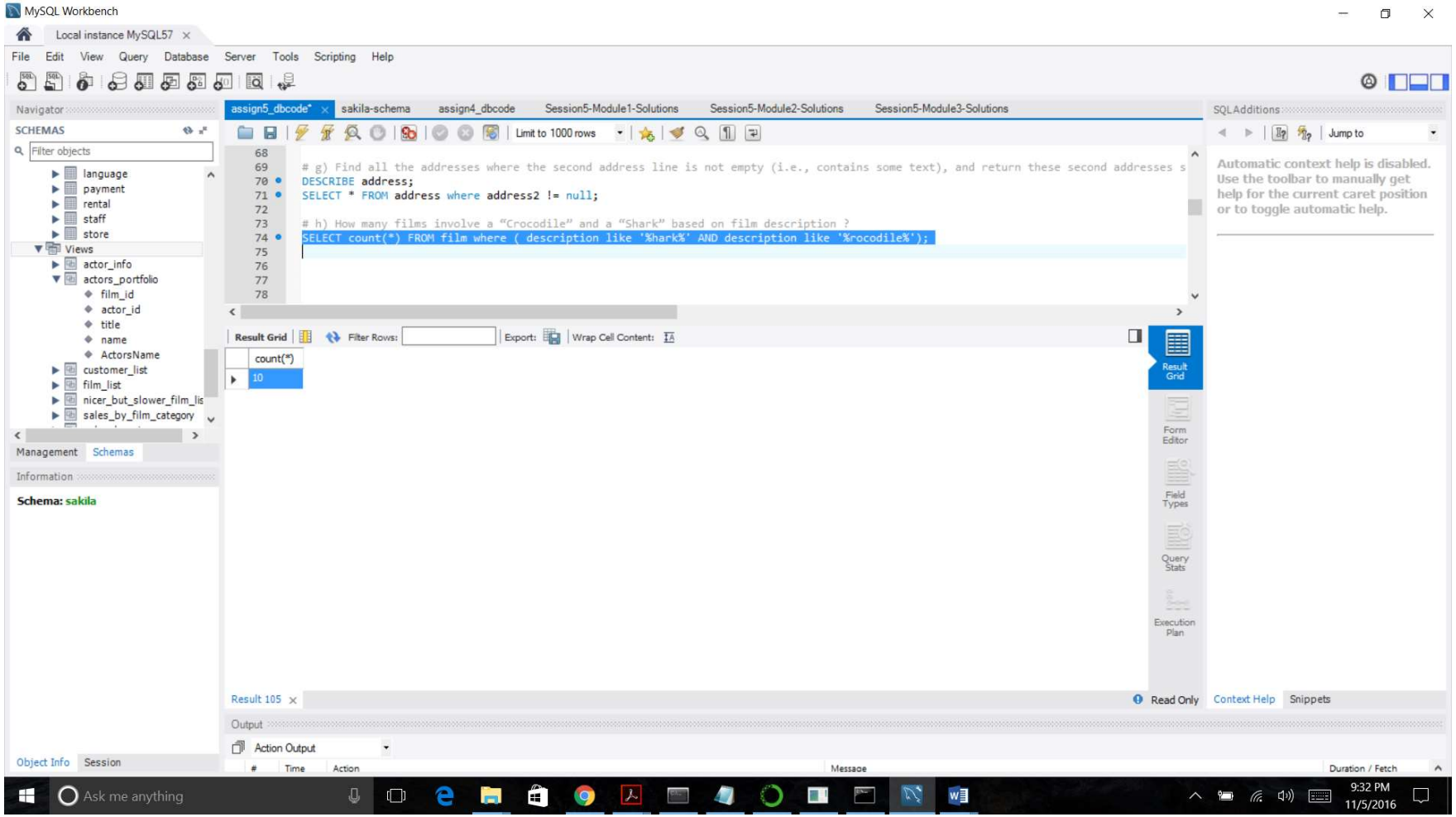
 # g) Find all the addresses where the second address line is not empty (i.e., contains some text), and return these second addresses sorted.

SELECT * FROM address where address2! = null;



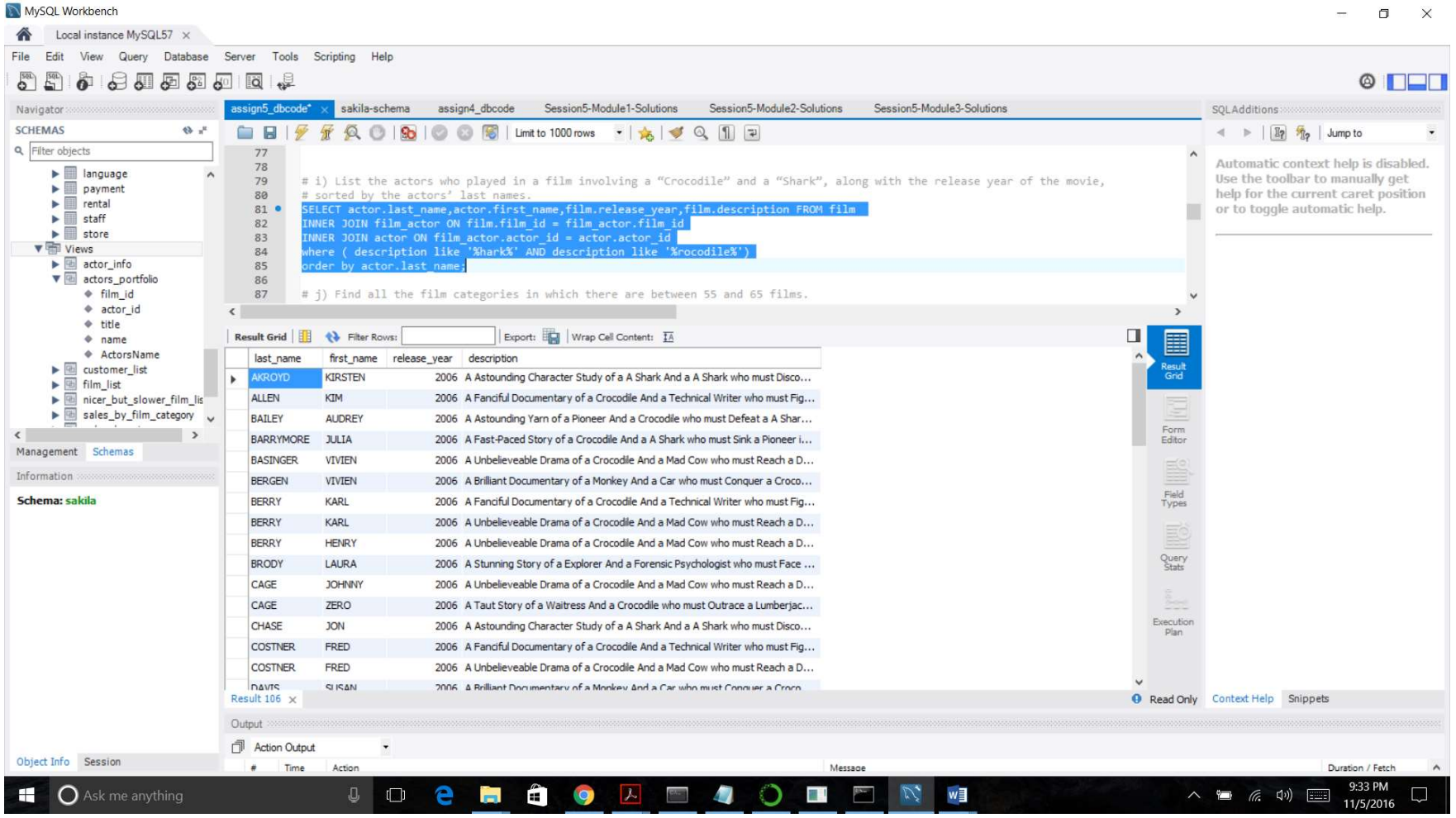
 # h) How many films involve a “Crocodile” and a “Shark” based on film description?

SELECT count(*) FROM film where (description like '%hark%' AND description like '%rocodile%');



 # i) List the actors who played in a film involving a “Crocodile” and a “Shark”, along with the release year of the movie, sorted by the actors’ last names.

```
SELECT actor.last_name,actor.first_name,film.release_year,film.description FROM film
INNER JOIN film_actor ON film.film_id = film_actor.film_id
INNER JOIN actor ON film_actor.actor_id = actor.actor_id
where ( description like '%hark%' AND description like '%rocodile%')
order by actor.last_name;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
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Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
77
78
79 # i) List the actors who played in a film involving a "Crocodile" and a "Shark", along with the release year of the movie,
80 # sorted by the actors' last names.
81 SELECT actor.last_name,actor.first_name,film.release_year,film.description FROM film
82 INNER JOIN film_actor ON film.film_id = film_actor.film_id
83 INNER JOIN actor ON film_actor.actor_id = actor.actor_id
84 where (description like '%shark%' AND description like '%rocodile%')
85 order by actor.last_name;
86
87 # j) Find all the film categories in which there are between 55 and 65 films.
Result Grid Filter Rows: Export: Wrap Cell Content:
last_name first_name release_year description
AKROYD KIRSTEN 2006 A Astounding Character Study of a A Shark And a A Shark who must Disco...
ALLEN KIM 2006 A Fanciful Documentary of a Crocodile And a Technical Writer who must Fig...
BAILEY AUDREY 2006 A Astounding Yarn of a Pioneer And a Crocodile who must Defeat a A Shar...
BARRYMORE JULIA 2006 A Fast-Paced Story of a Crocodile And a A Shark who must Sink a Pioneer i...
BASINGER VIVIEN 2006 A Unbelieveable Drama of a Crocodile And a Mad Cow who must Reach a D...
BERGEN VIVIEN 2006 A Brilliant Documentary of a Monkey And a Car who must Conquer a Croco...
BERRY KARL 2006 A Fanciful Documentary of a Crocodile And a Technical Writer who must Fig...
BERRY KARL 2006 A Unbelieveable Drama of a Crocodile And a Mad Cow who must Reach a D...
BERRY HENRY 2006 A Unbelieveable Drama of a Crocodile And a Mad Cow who must Reach a D...
BRODY LAURA 2006 A Stunning Story of a Explorer And a Forensic Psychologist who must Face ...
CAGE JOHNNY 2006 A Unbelieveable Drama of a Crocodile And a Mad Cow who must Reach a D...
CAGE ZERO 2006 A Taut Story of a Waitress And a Crocodile who must Outrace a Lumberjac...
CHASE JON 2006 A Astounding Character Study of a A Shark And a A Shark who must Disco...
COSTNER FRED 2006 A Fanciful Documentary of a Crocodile And a Technical Writer who must Fig...
COSTNER FRED 2006 A Unbelieveable Drama of a Crocodile And a Mad Cow who must Reach a D...
DAVIS SUSAN 2006 A Brilliant Documentary of a Monkey And a Car who must Conquer a Croco...
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 106
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
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Action Output
Time Action Message Duration / Fetch
Ask me anything
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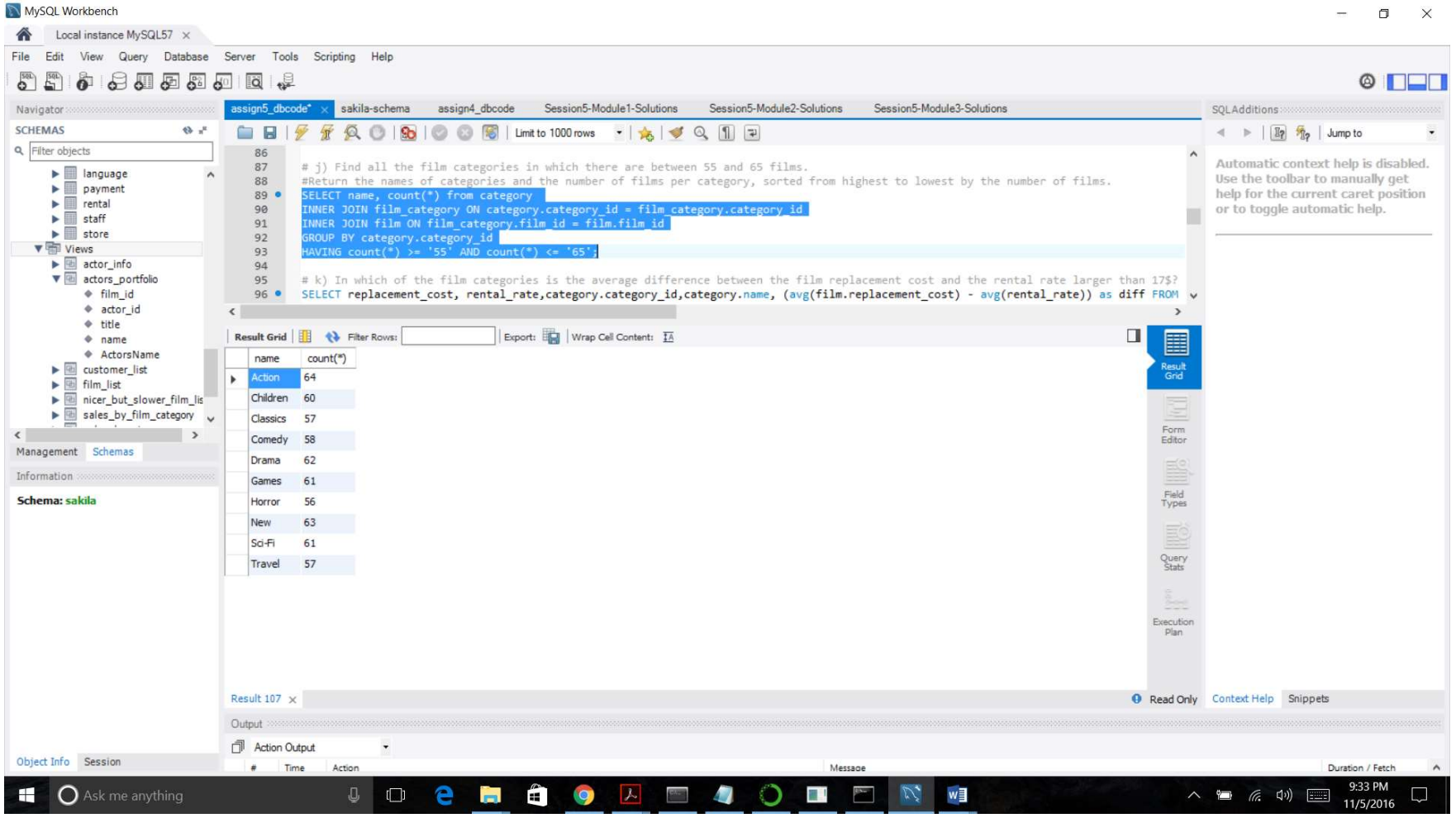
 # j) Find all the film categories in which there are between 55 and 65 films. Return the names of categories and the number of films per category, sorted from highest to lowest by the number of films.

```
SELECT name, count(*) from category
INNER JOIN film_category ON category.category_id = film_category.category_id
INNER JOIN film ON film_category.film_id = film.film_id
GROUP BY category.category_id
HAVING count(*) >= '55' AND count(*) <= '65';
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
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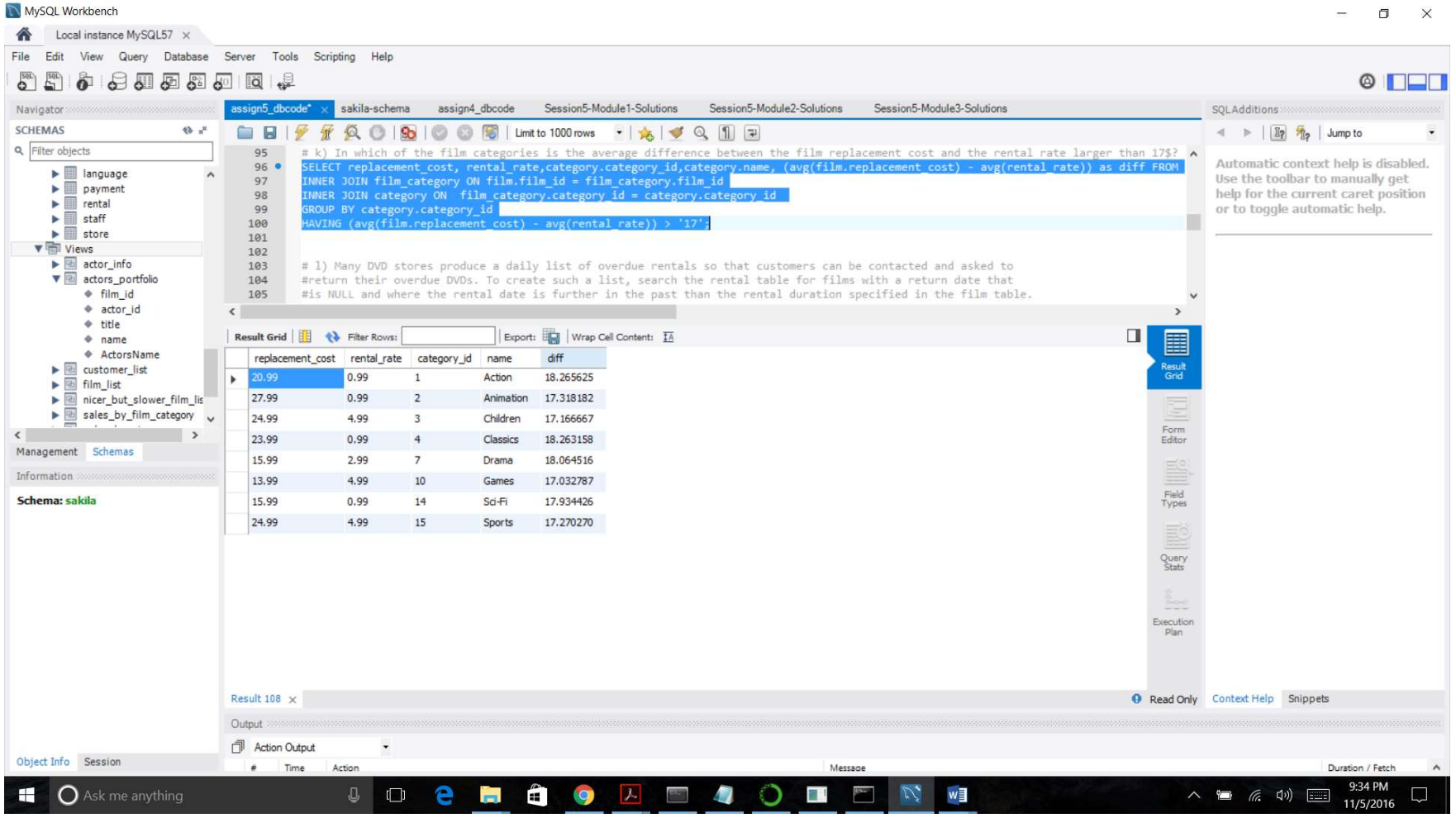
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
86
87 # j) Find all the film categories in which there are between 55 and 65 films.
88 #Return the names of categories and the number of films per category, sorted from highest to lowest by the number of films.
89 SELECT name, count(*) from category
90 INNER JOIN film_category ON category.category_id = film_category.category_id
91 INNER JOIN film ON film_category.film_id = film.film_id
92 GROUP BY category.category_id
93 HAVING count(*) >= '55' AND count(*) <= '65';
94
95 # k) In which of the film categories is the average difference between the film replacement cost and the rental rate larger than 17$?
96 SELECT replacement_cost, rental_rate,category.category_id,category.name, (avg(film.replacement_cost) - avg(rental_rate)) as diff FROM
Result Grid Filter Rows: Export: Wrap Cell Content:
name count(*)
Action 64
Children 60
Classics 57
Comedy 58
Drama 62
Games 61
Horror 56
New 63
Sci-Fi 61
Travel 57
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 107
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
9:33 PM
11/5/2016

 # k) In which of the film categories is the average difference between the film replacement cost and the rental rate larger than 17$?

```
SELECT replacement_cost, rental_rate,category.category_id,category.name, (avg(film.replacement_cost) - avg(rental_rate)) as diff
FROM film
INNER JOIN film_category ON film.film_id = film_category.film_id
INNER JOIN category ON  film_category.category_id = category.category_id
GROUP BY category.category_id
HAVING (avg(film.replacement_cost) - avg(rental_rate)) > '17';
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
95 # k) In which of the film categories is the average difference between the film replacement cost and the rental rate larger than 17$?
96 SELECT replacement_cost, rental_rate,category.category_id,category.name, (avg(film.replacement_cost) - avg(rental_rate)) as diff FROM
97 INNER JOIN film_category ON film.film_id = film_category.film_id
98 INNER JOIN category ON film_category.category_id = category.category_id
99 GROUP BY category.category_id
100 HAVING (avg(film.replacement_cost) - avg(rental_rate)) > '17';
101
102
103 # l) Many DVD stores produce a daily list of overdue rentals so that customers can be contacted and asked to
104 #return their overdue DVDs. To create such a list, search the rental table for films with a return date that
105 #is NULL and where the rental date is further in the past than the rental duration specified in the film table.
Result Grid Filter Rows: Export: Wrap Cell Content:
replacement_cost rental_rate category_id name diff
20.99 0.99 1 Action 18.265625
27.99 0.99 2 Animation 17.318182
24.99 4.99 3 Children 17.166667
23.99 0.99 4 Classics 18.263158
15.99 2.99 7 Drama 18.064516
13.99 4.99 10 Games 17.032787
15.99 0.99 14 Sci-Fi 17.934426
24.99 4.99 15 Sports 17.270270
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 108
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
9:34 PM
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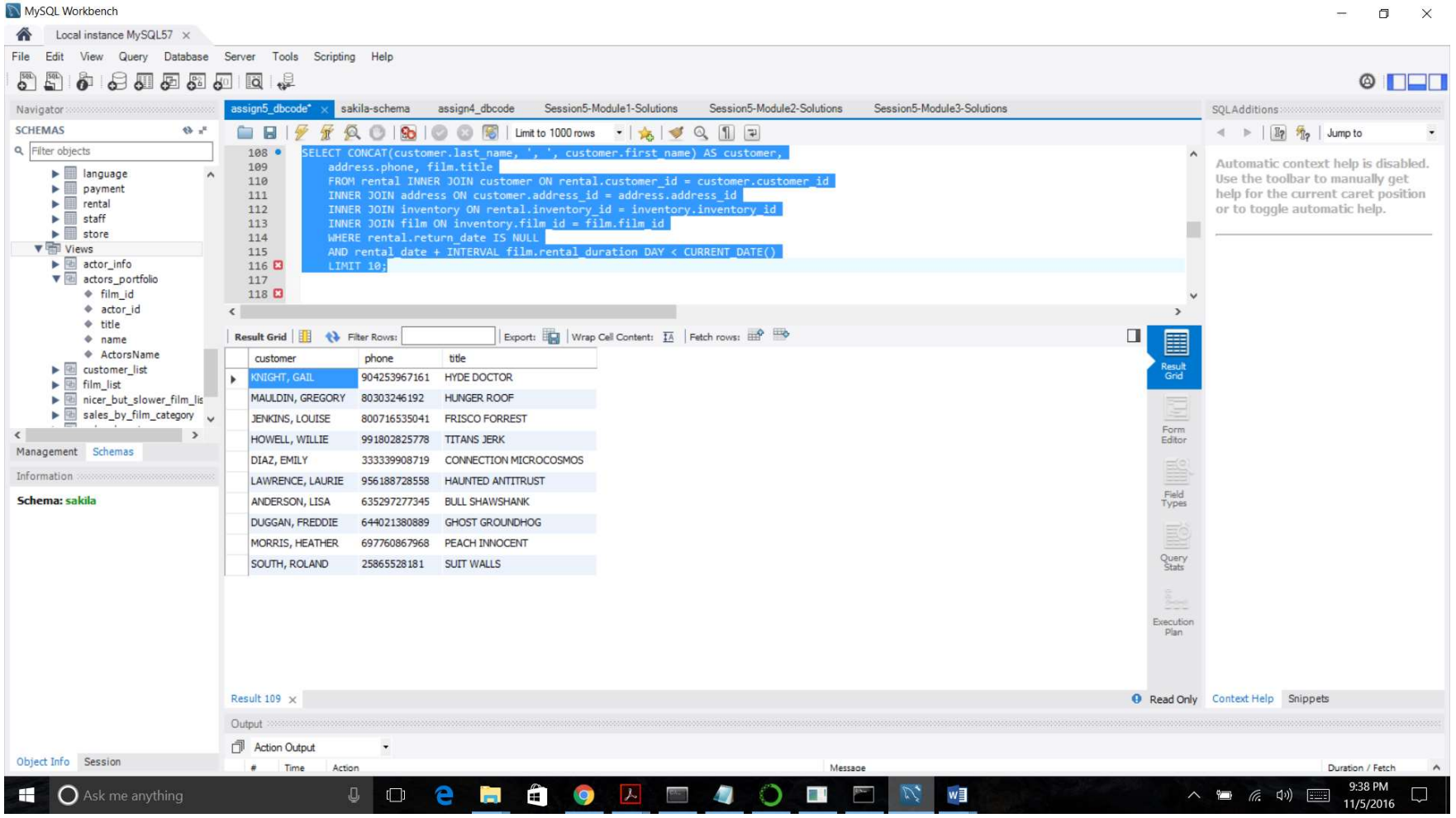
 # l) Many DVD stores produce a daily list of overdue rentals so that customers can be contacted and asked to
#return their overdue DVDs. To create such a list, search the rental table for films with a return date that
#is NULL and where the rental date is further in the past than the rental duration specified in the film table.
#If so, the film is overdue and we should produce the name of the film along with the customer name and phone number.

```
SELECT CONCAT(customer.last_name, ', ', customer.first_name) AS customer,
   address.phone, film.title
   FROM rental INNER JOIN customer ON rental.customer_id = customer.customer_id
   INNER JOIN address ON customer.address_id = address.address_id
   INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
   INNER JOIN film ON inventory.film_id = film.film_id
   WHERE rental.return_date IS NULL
   AND rental_date + INTERVAL film.rental_duration DAY < CURRENT_DATE()
   LIMIT 10;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
108 SELECT CONCAT(customer.last_name, ', ', customer.first_name) AS customer,
109 address.phone, film.title
110 FROM rental INNER JOIN customer ON rental.customer_id = customer.customer_id
111 INNER JOIN address ON customer.address_id = address.address_id
112 INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
113 INNER JOIN film ON inventory.film_id = film.film_id
114 WHERE rental.return_date IS NULL
115 AND rental_date + INTERVAL film.rental_duration DAY < CURRENT_DATE()
116 LIMIT 10;
117
118
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
customer phone title
KNIGHT, GAIL 904253967161 HYDE DOCTOR
MAULDIN, GREGORY 80303246192 HUNGER ROOF
JENKINS, LOUISE 800716535041 FRISCO FORREST
HOWELL, WILLIE 991802825778 TITANS JERK
DIAZ, EMILY 333339908719 CONNECTION MICROCOSMOS
LAWRENCE, LAURIE 956188728558 HAUNTED ANTITRUST
ANDERSON, LISA 635297277345 BULL SHAWSHANK
DUGGAN, FREDDIE 644021380889 GHOST GROUNDHOG
MORRIS, HEATHER 697760867968 PEACH INNOCENT
SOUTH, ROLAND 25865528181 SUIT WALLS
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 109
Read Only
Output
Action Output
Time Action Message Duration / Fetch
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Ask me anything
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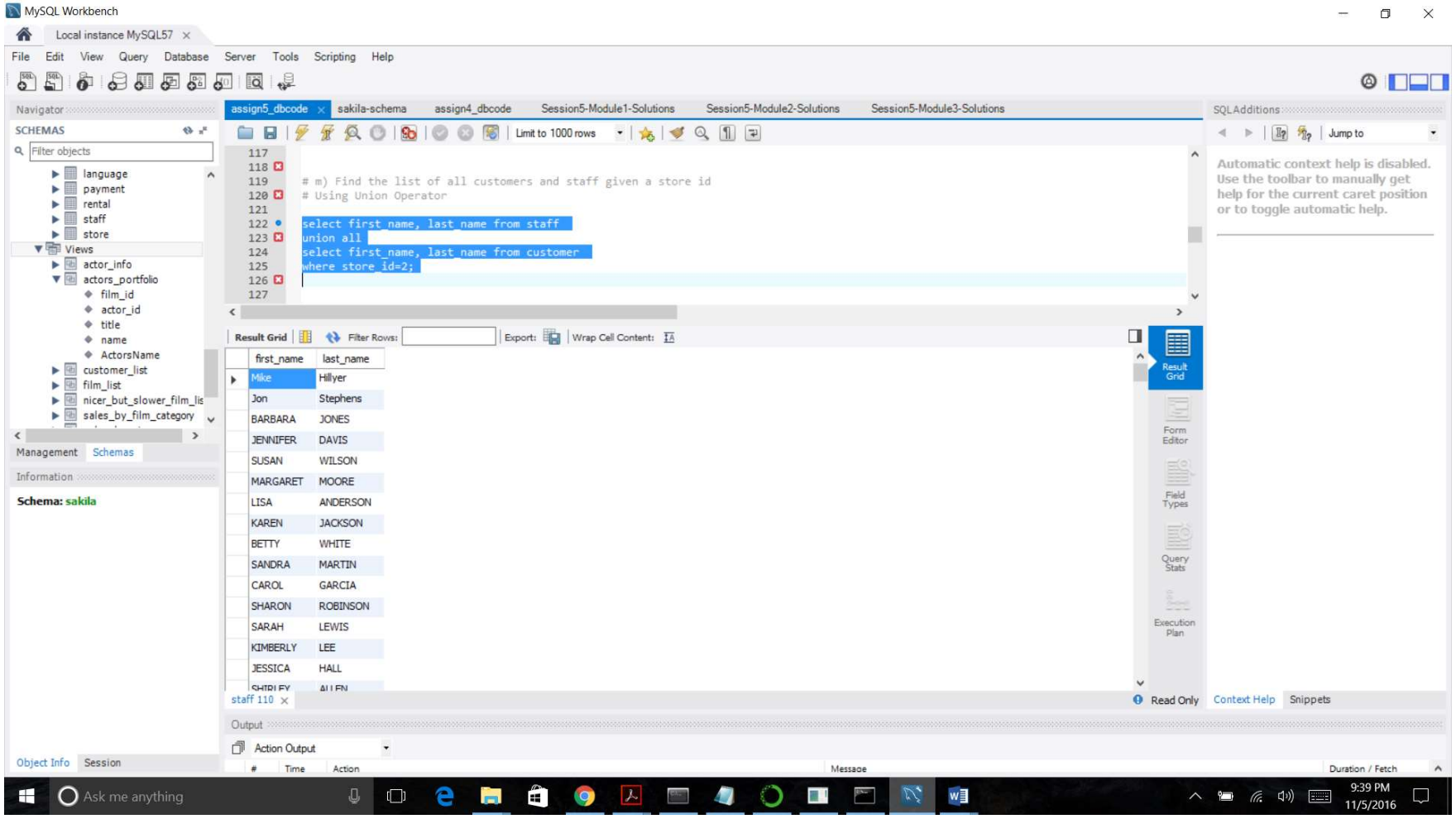
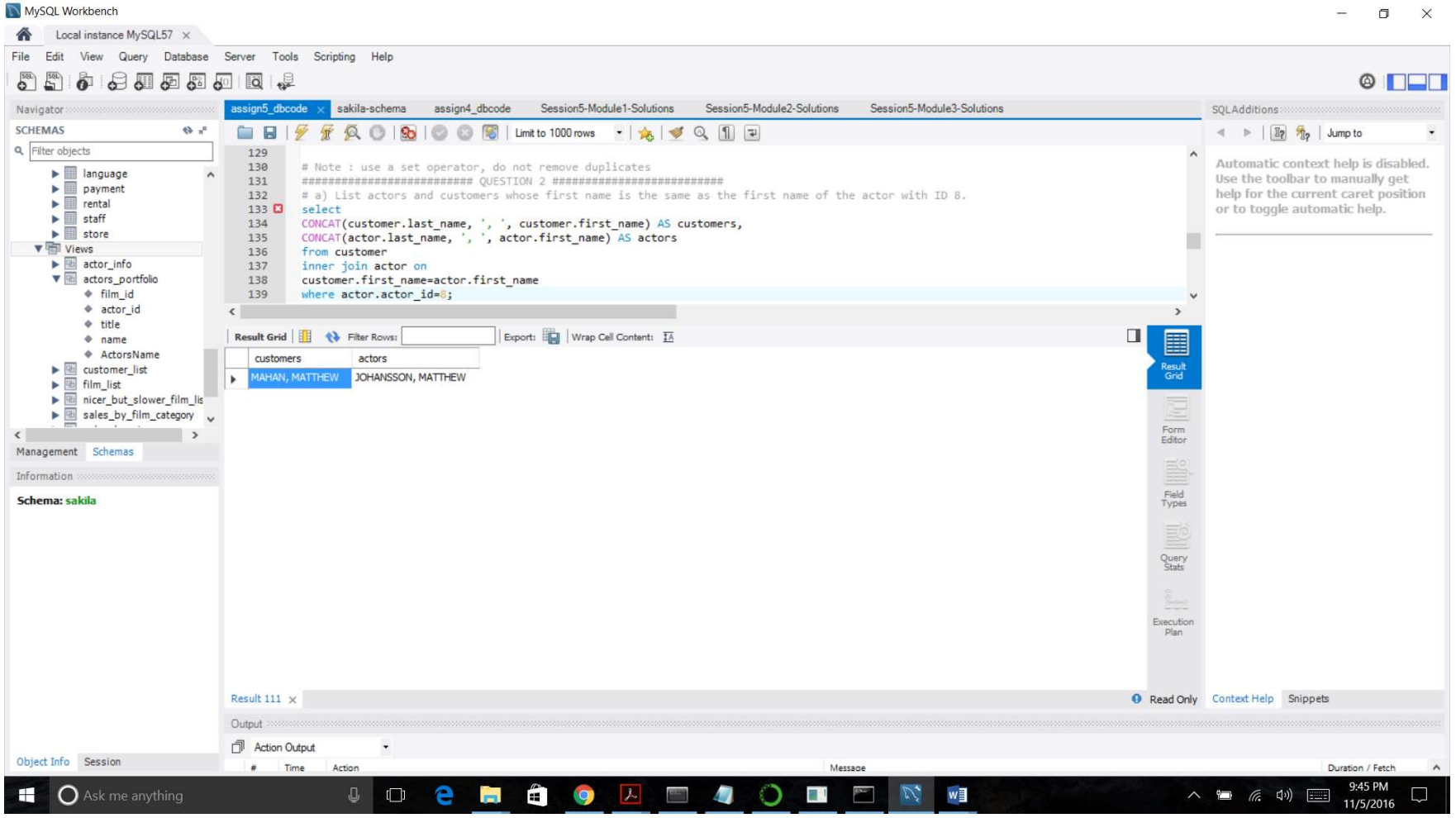
m) Find the list of all customers and staff given a store id

```
select first_name, last_name from staff
union all
select first_name, last_name from customer
where store_id=2;
```

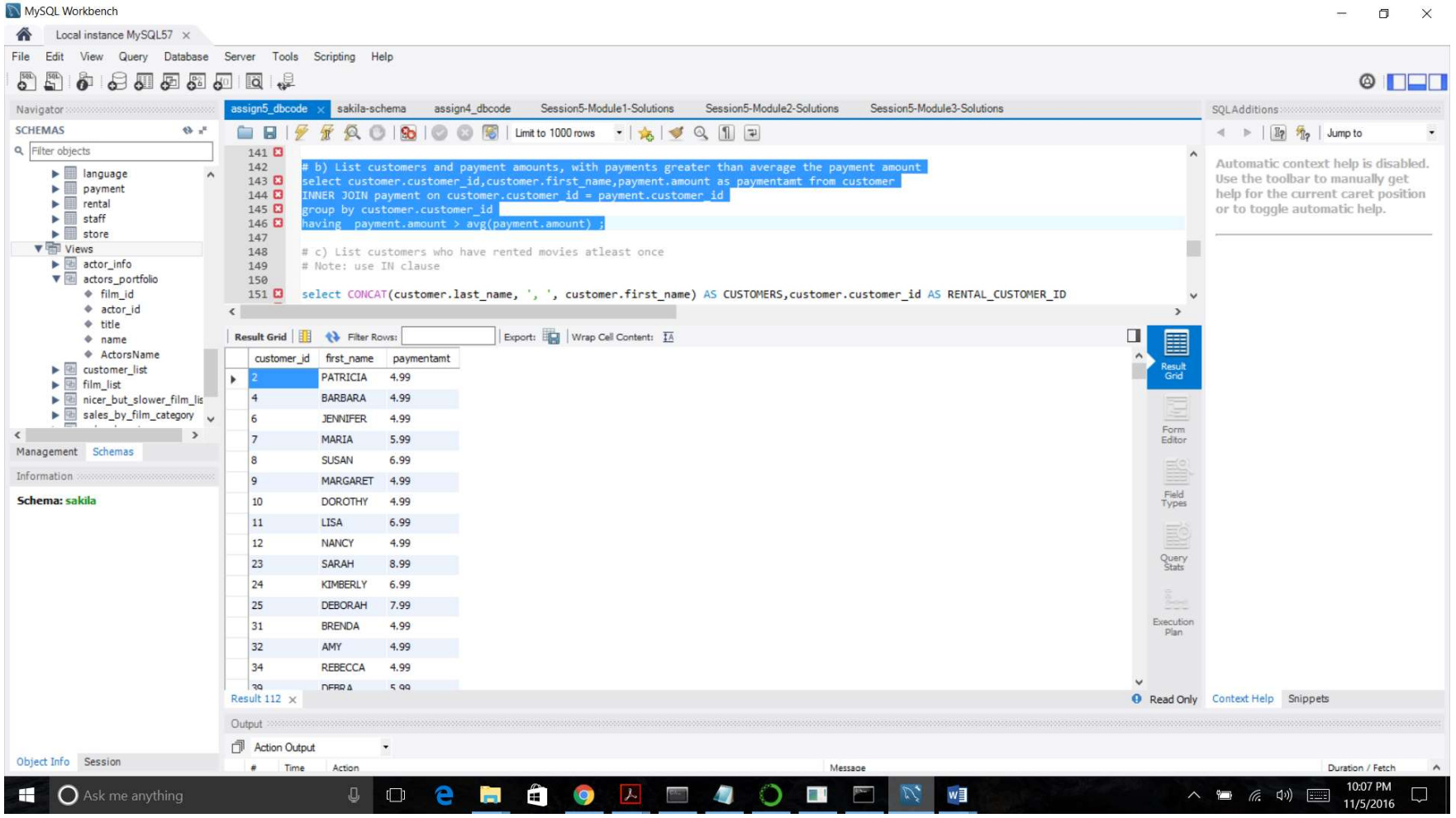


Note : use a set operator, do not remove duplicates

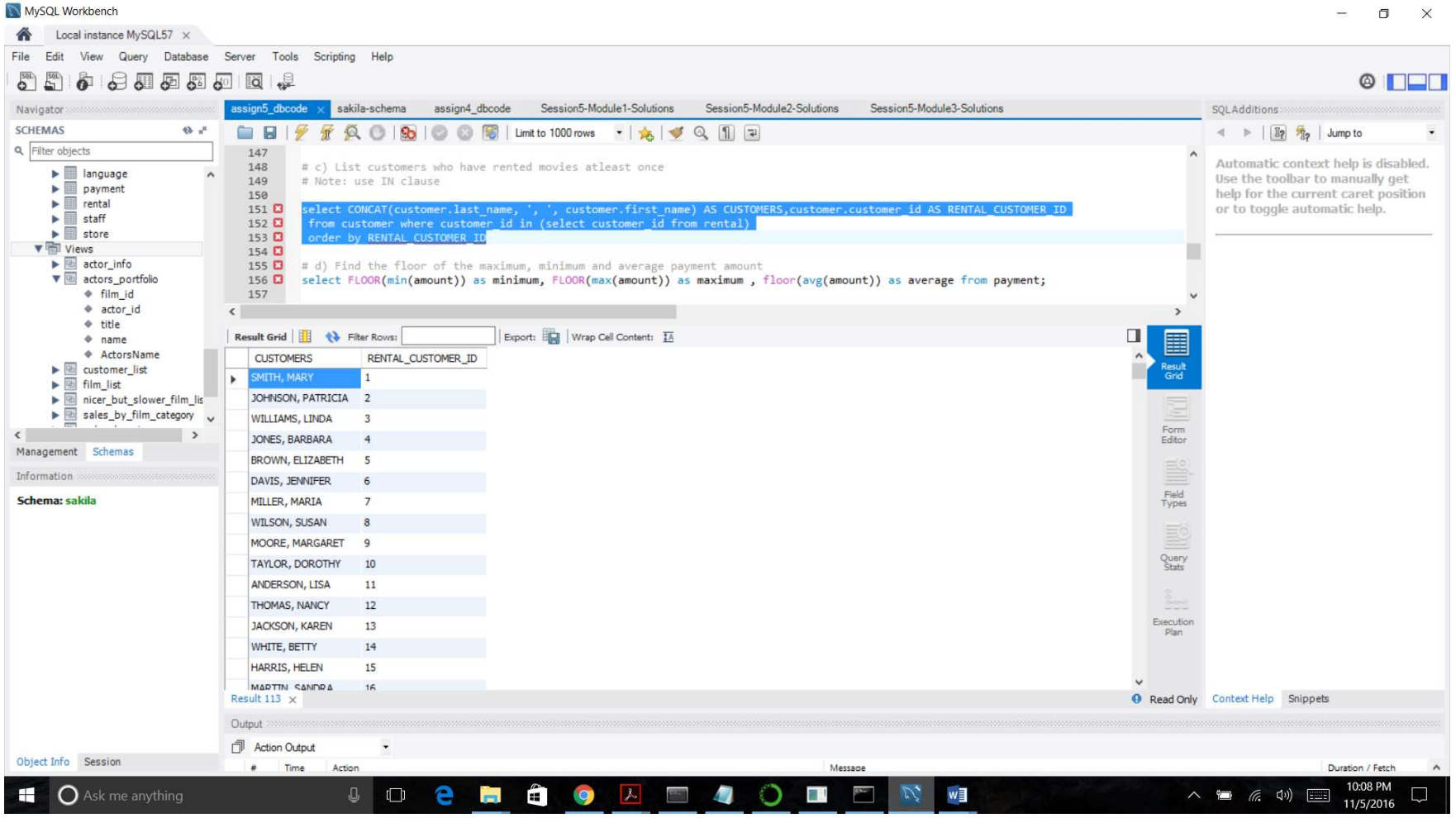
```
########################## QUESTION 2 ##########################
# a) List actors and customers whose first name is the same as the first name of the actor with ID 8.
select
CONCAT(customer.last_name, ', ', customer.first_name) AS customers,
CONCAT(actor.last_name, ', ', actor.first_name) AS actors
from customer
inner join actor on
customer.first_name=actor.first_name
where actor.actor_id=8;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
129
130 # Note : use a set operator, do not remove duplicates
131 ########################## QUESTION 2 ##########################
132 # a) List actors and customers whose first name is the same as the first name of the actor with ID 8.
133 select
134 CONCAT(customer.last_name, ', ', customer.first_name) AS customers,
135 CONCAT(actor.last_name, ', ', actor.first_name) AS actors
136 from customer
137 inner join actor on
138 customer.first_name=actor.first_name
139 where actor.actor_id=8;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customers
actors
MAHAN, MATTHEW
JOHANSSON, MATTHEW
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 111
Read Only
Output
Action Output
Time Action Message Duration / Fetch
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Ask me anything
9:45 PM
11/5/2016

```
# b) List customers and payment amounts, with payments greater than average the payment amount
select customer.customer_id,customer.first_name,payment.amount as paymentamt from customer
INNER JOIN payment on customer.customer_id = payment.customer_id
group by customer.customer_id
having  payment.amount > avg(payment.amount) ;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
b) List customers and payment amounts, with payments greater than average the payment amount
select customer.customer_id,customer.first_name,payment.amount as paymentamt from customer
INNER JOIN payment on customer.customer_id = payment.customer_id
group by customer.customer_id
having payment.amount > avg(payment.amount) ;
c) List customers who have rented movies atleast once
Note: use IN clause
select CONCAT(customer.last_name, ', ', customer.first_name) AS CUSTOMERS,customer.customer_id AS RENTAL_CUSTOMER_ID
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customer_id first_name paymentamt
2 PATRICIA 4.99
4 BARBARA 4.99
6 JENNIFER 4.99
7 MARIA 5.99
8 SUSAN 6.99
9 MARGARET 4.99
10 DOROTHY 4.99
11 LISA 6.99
12 NANCY 4.99
23 SARAH 8.99
24 KIMBERLY 6.99
25 DEBORAH 7.99
31 BRENDA 4.99
32 AMY 4.99
34 REBECCA 4.99
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 112
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:07 PM
11/5/2016

```
# c) List customers who have rented movies at least once
# Note: use IN clause
select CONCAT(customer.last_name, ', ', customer.first_name) AS CUSTOMERS,customer.customer_id AS RENTAL_CUSTOMER_ID
 from customer where customer_id in (select customer_id from rental)
 order by RENTAL_CUSTOMER_ID
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
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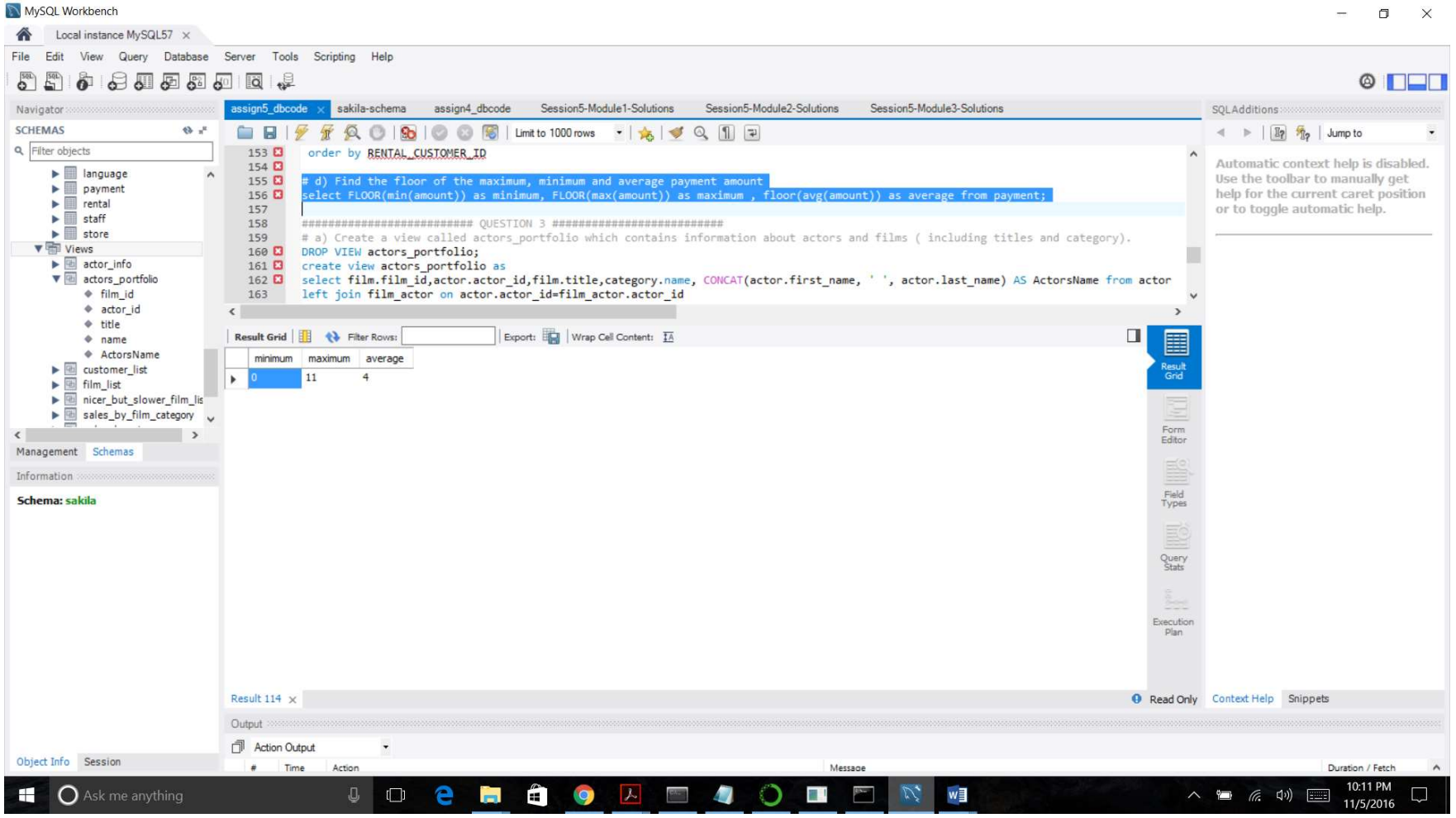
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
147
148 # c) List customers who have rented movies atleast once
149 # Note: use IN clause
150
151 select CONCAT(customer.last_name, ', ', customer.first_name) AS CUSTOMERS,customer.customer_id AS RENTAL_CUSTOMER_ID
152 from customer where customer_id in (select customer_id from rental)
153 order by RENTAL_CUSTOMER_ID
154
155 # d) Find the floor of the maximum, minimum and average payment amount
156 select FLOOR(min(amount)) as minimum, FLOOR(max(amount)) as maximum , floor(avg(amount)) as average from payment;
157
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
CUSTOMERS RENTAL_CUSTOMER_ID
SMITH, MARY 1
JOHNSON, PATRICIA 2
WILLIAMS, LINDA 3
JONES, BARBARA 4
BROWN, ELIZABETH 5
DAVIS, JENNIFER 6
MILLER, MARIA 7
WILSON, SUSAN 8
MOORE, MARGARET 9
TAYLOR, DOROTHY 10
ANDERSON, LISA 11
THOMAS, NANCY 12
JACKSON, KAREN 13
WHITE, BETTY 14
HARRIS, HELEN 15
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 113
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:08 PM
11/5/2016

 # d) Find the floor of the maximum, minimum and average payment amount #

```
select FLOOR(min(amount)) as minimum, FLOOR(max(amount)) as maximum , floor(avg(amount)) as average from payment;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
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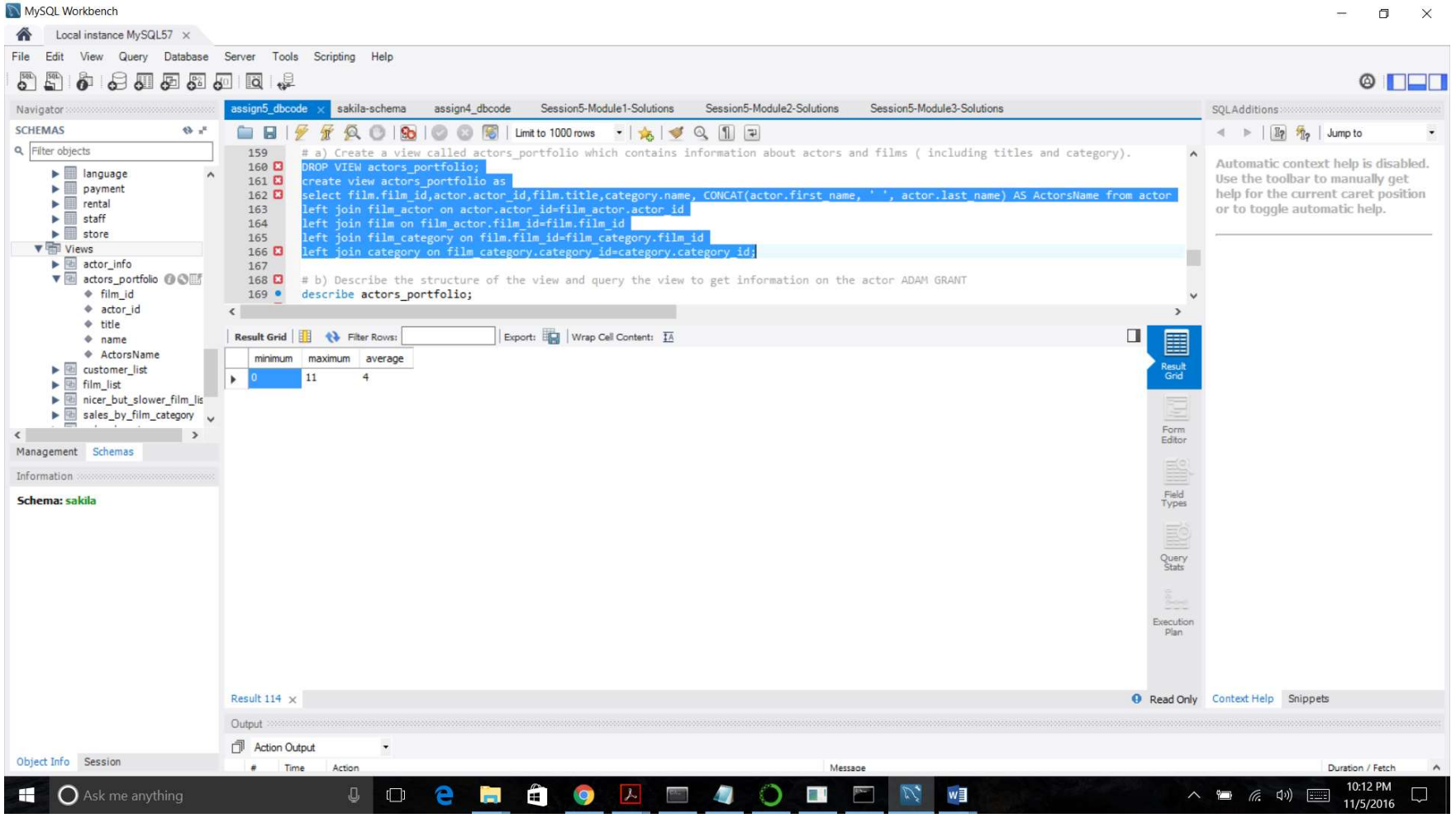
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
153 order by RENTAL_CUSTOMER_ID
154
155 # d) Find the floor of the maximum, minimum and average payment amount
156 select FLOOR(min(amount)) as minimum, FLOOR(max(amount)) as maximum , floor(avg(amount)) as average from payment;
157
158 ######################### QUESTION 3 #########################
159 # a) Create a view called actors_portfolio which contains information about actors and films (including titles and category).
160 DROP VIEW actors_portfolio;
161 create view actors_portfolio as
162 select film.film_id,actor.actor_id,film.title,category.name, CONCAT(actor.first_name, ' ', actor.last_name) AS ActorsName from actor
163 left join film_actor on actor.actor_id=film_actor.actor_id
Result Grid Filter Rows: Export: Wrap Cell Content:
minimum maximum average
0 11 4
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 114
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:11 PM
11/5/2016

########################## QUESTION 3 ##########################

 # a) Create a view called actors_portfolio which contains information about actors and films (including titles and category).

```
create view actors_portfolio as
select film.film_id,actor.actor_id,film.title,category.name, CONCAT(actor.first_name, ' ', actor.last_name) AS ActorsName from actor
left join film_actor on actor.actor_id=film_actor.actor_id
left join film on film_actor.film_id=film.film_id
left join film_category on film.film_id=film_category.film_id
left join category on film_category.category_id=category.category_id;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
Schema: sakila
Object Info Session
assign5_dbcode
sakila-schema
assign4_dbcode
Session5-Module1-Solutions
Session5-Module2-Solutions
Session5-Module3-Solutions
Limit to 1000 rows
159 # a) Create a view called actors_portfolio which contains information about actors and films (including titles and category).
160 DROP VIEW actors_portfolio;
161 create view actors_portfolio as
162 select film.film_id,actor.actor_id,film.title,category.name, CONCAT(actor.first_name, ' ', actor.last_name) AS ActorsName from actor
163 left join film_actor on actor.actor_id=film_actor.actor_id
164 left join film on film_actor.film_id=film.film_id
165 left join film_category on film.film_id=film_category.film_id
166 left join category on film_category.category_id=category.category_id;
167
168 # b) Describe the structure of the view and query the view to get information on the actor ADAM GRANT
169 describe actors_portfolio;
Result Grid Filter Rows: Export: Wrap Cell Content:
minimum maximum average
0 11 4
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 114
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
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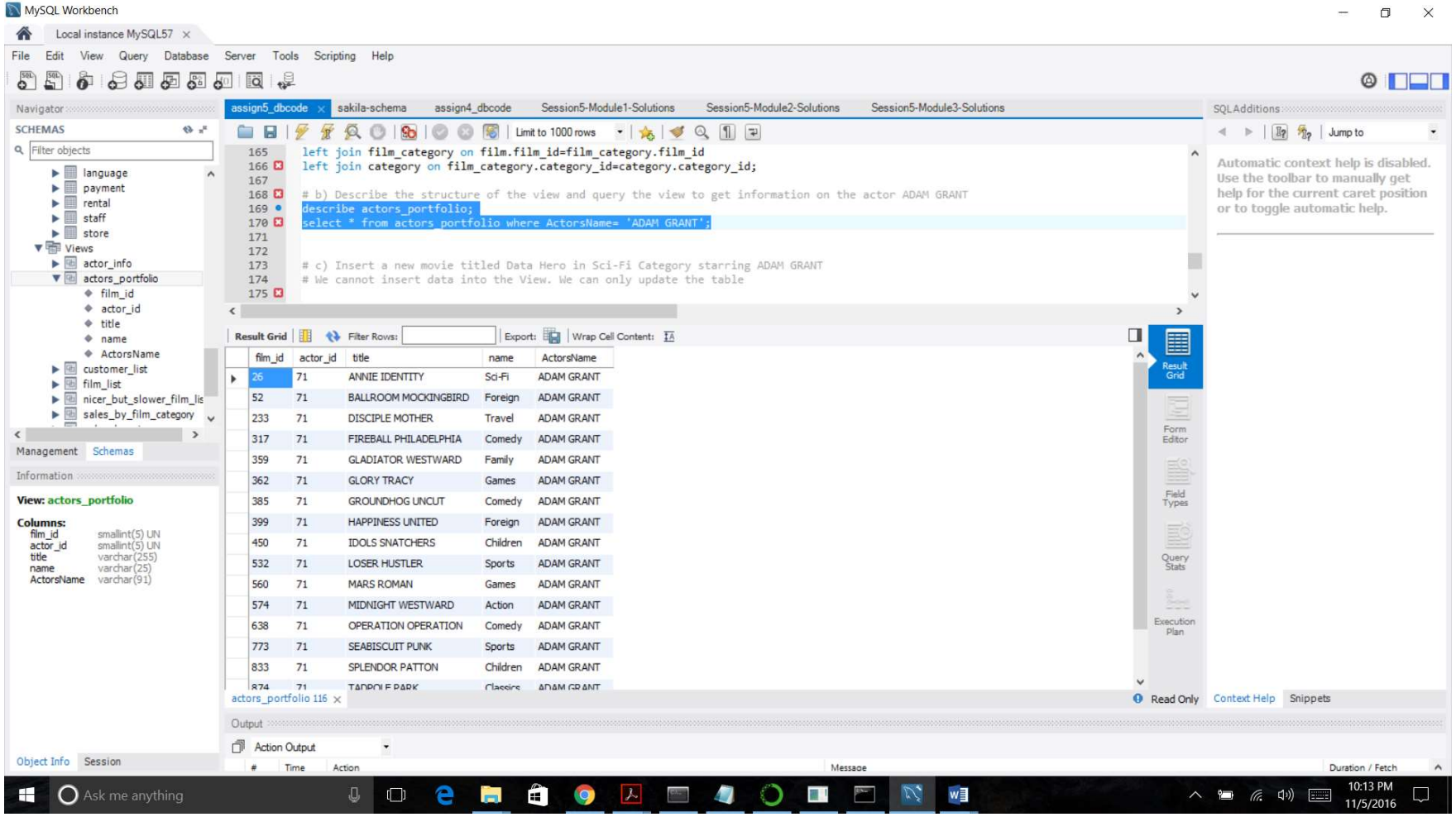
11/5/2016

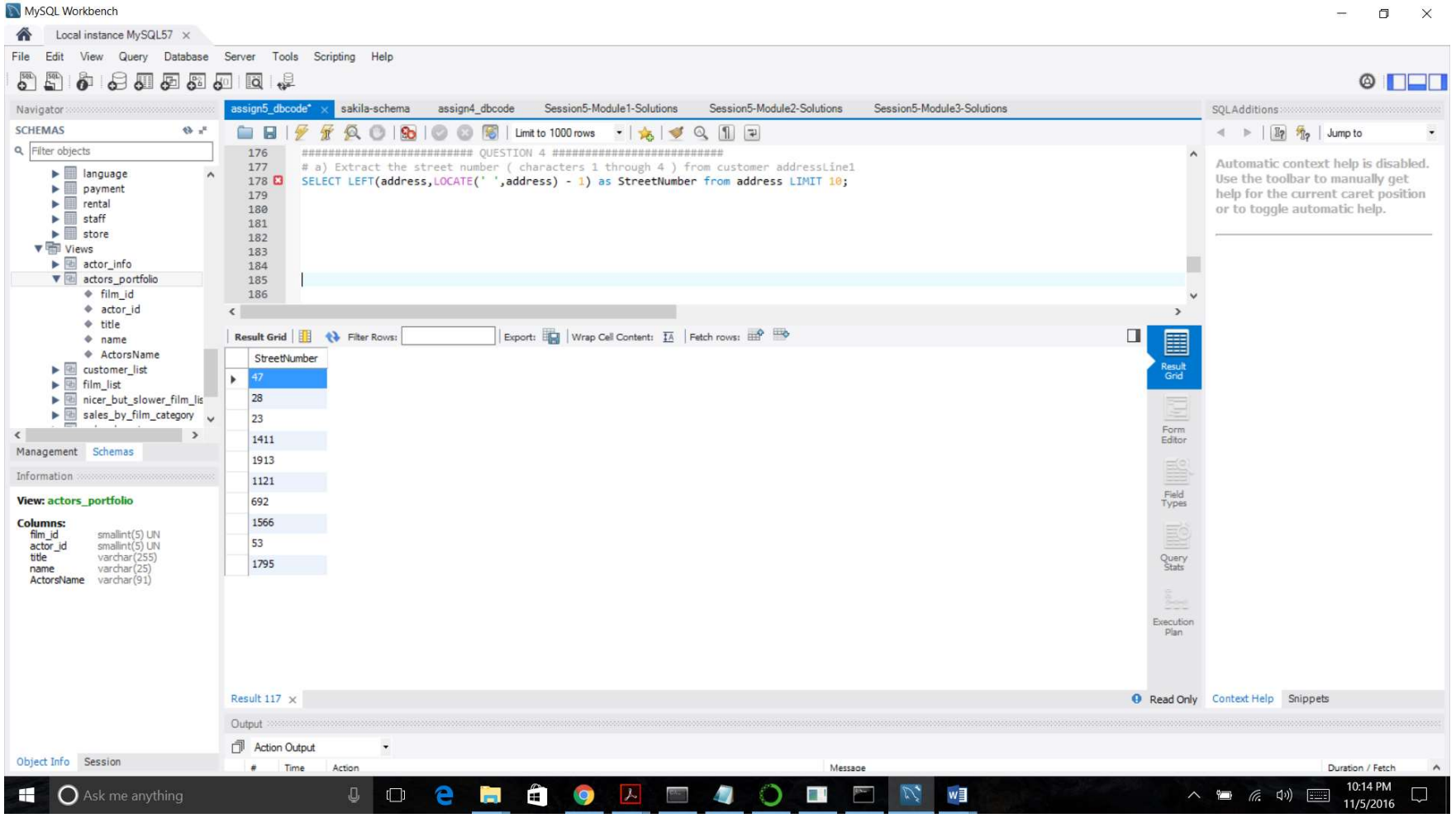
 # b) Describe the structure of the view and query the view to get information on the actor ADAM GRANT

```
describe actors_portfolio;
select * from actors_portfolio where ActorsName= 'ADAM GRANT';
```



 # c) Insert a new movie titled Data Hero in Sci-Fi Category starring ADAM GRANT
 # We cannot insert data into the View. We can only update the table

########################## QUESTION 4 ##########################
 # a) Extract the street number (characters 1 through 4) from customer addressLine1


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
View: actors_portfolio
Columns:
film_id smallint(5) UN
actor_id smallint(5) UN
title varchar(255)
name varchar(25)
ActorsName varchar(91)
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
176 ######################### QUESTION 4 #########################
177 # a) Extract the street number (characters 1 through 4) from customer addressLine1
178 SELECT LEFT(address,LOCATE(' ',address) - 1) as StreetNumber from address LIMIT 10;
179
180
181
182
183
184
185
186
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
StreetNumber
47
28
23
1411
1913
1121
692
1566
53
1795
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 117
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:14 PM
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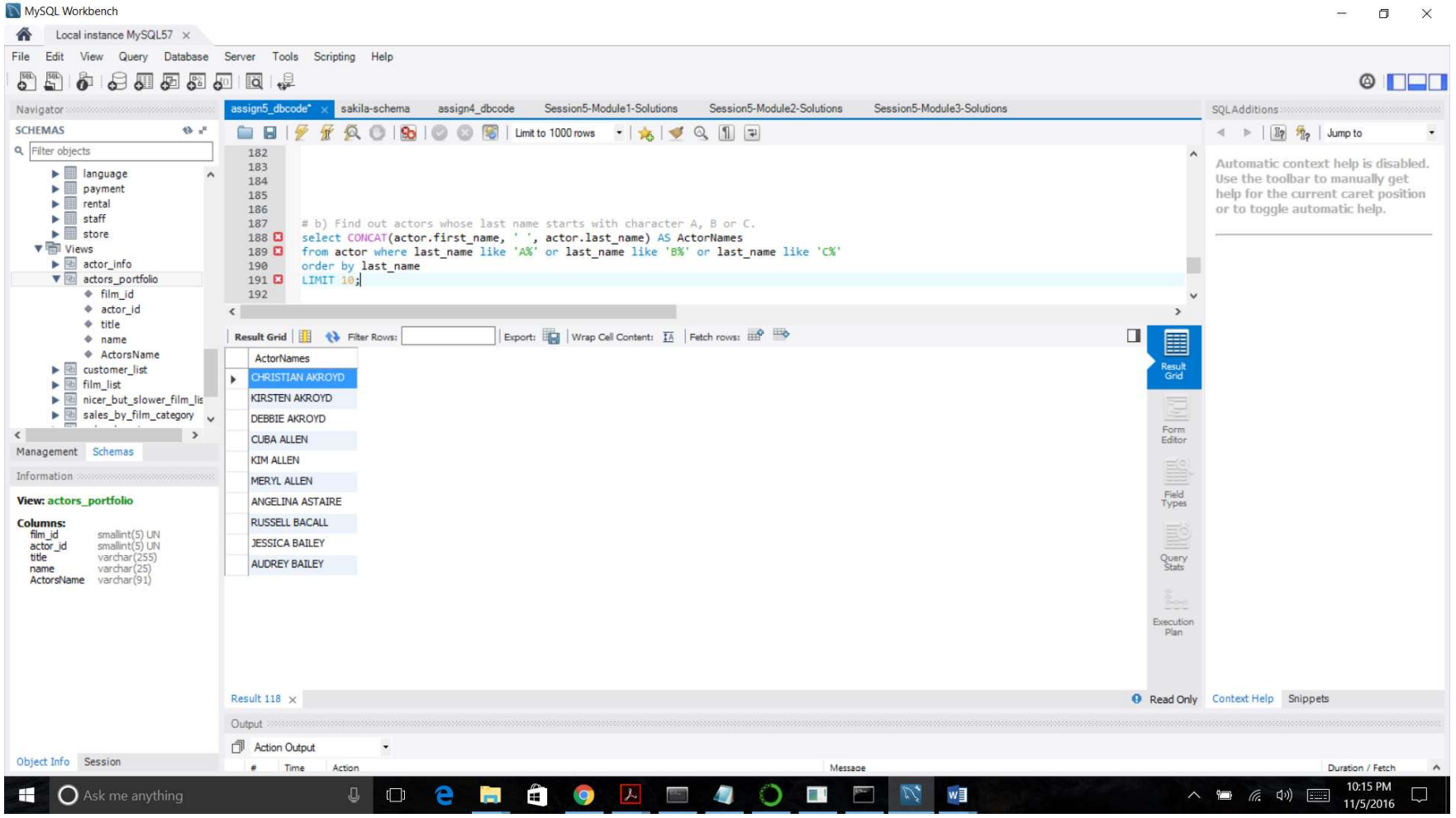
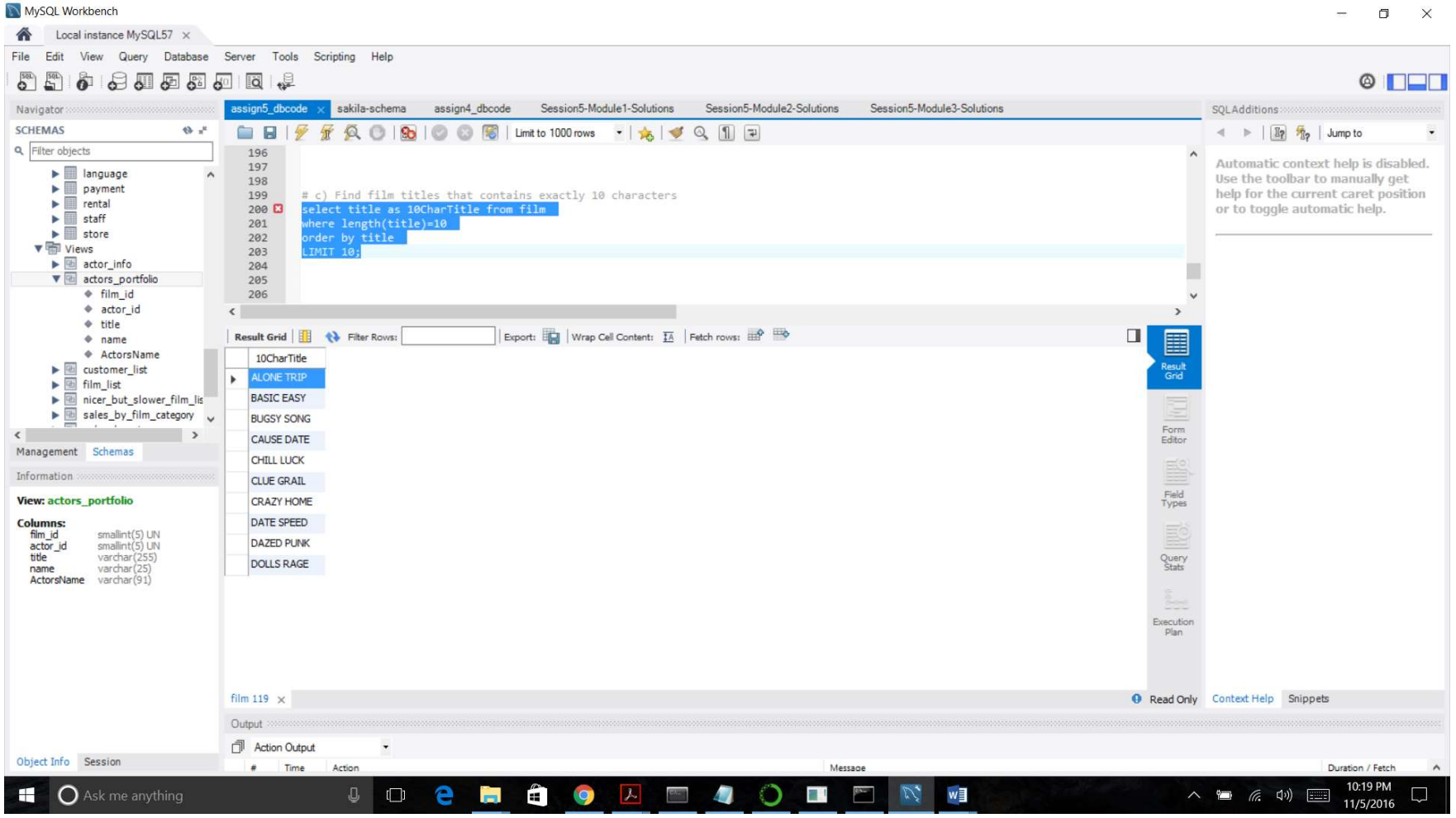
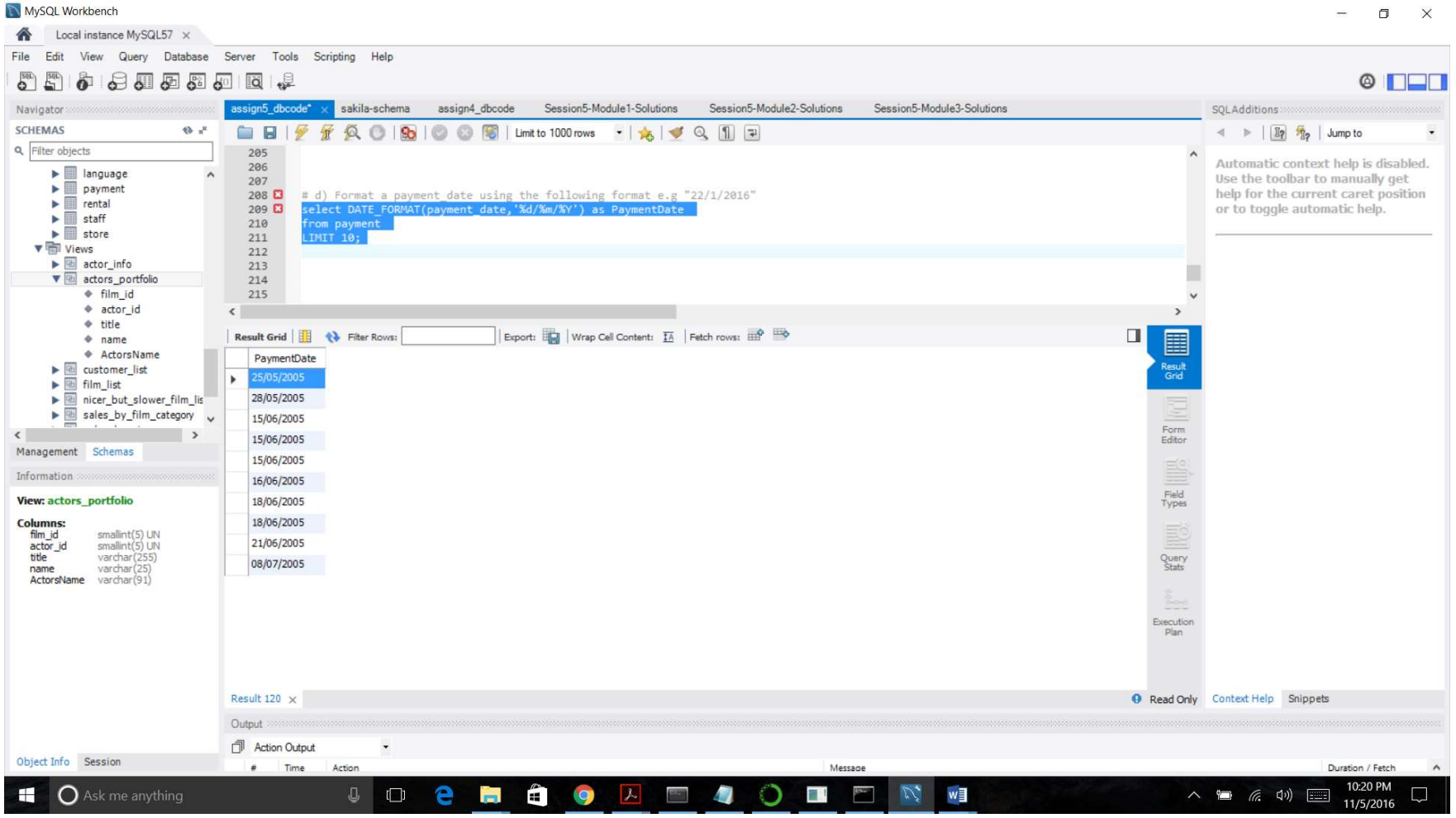
```
# b) Find out actors whose last name starts with character A, B or C.
select CONCAT(actor.first_name, ' ', actor.last_name) AS ActorNames
from actor where last_name like 'A%' or last_name like 'B%' or last_name like 'C%'
order by last_name
LIMIT 10;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
View: actors_portfolio
Columns:
film_id smallint(5) UN
actor_id smallint(5) UN
title varchar(255)
name varchar(25)
ActorsName varchar(91)
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
182
183
184
185
186
187 # b) Find out actors whose last name starts with character A, B or C.
188 select CONCAT(actor.first_name, ' ', actor.last_name) AS ActorNames
189 from actor where last_name like 'A%' or last_name like 'B%' or last_name like 'C%'
190 order by last_name
191 LIMIT 10;
192
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
ActorNames
CHRISTIAN AKROYD
KIRSTEN AKROYD
DEBBIE AKROYD
CUBA ALLEN
KIM ALLEN
MERYL ALLEN
ANGELINA ASTAIRE
RUSSELL BACALL
JESSICA BAILEY
AUDREY BAILEY
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 118
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:15 PM
11/5/2016

```
# c) Find film titles that contains exactly 10 characters
select title as 10CharTitle from film
where length(title)=10
order by title
LIMIT 10;
```

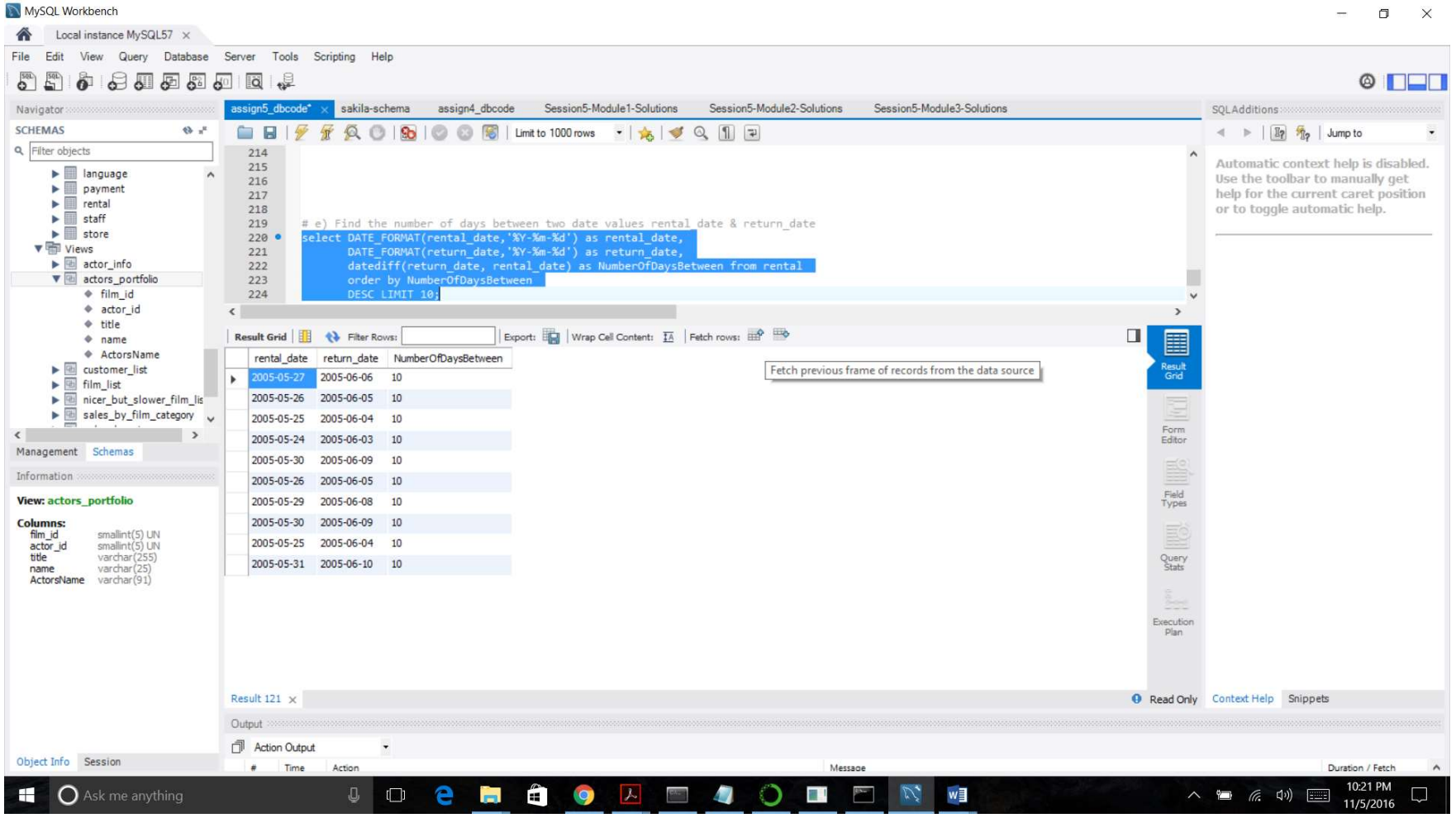

MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
View: actors_portfolio
Columns:
film_id smallint(5) UN
actor_id smallint(5) UN
title varchar(255)
name varchar(25)
ActorsName varchar(91)
Object Info Session
assign5_dbcode sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
196
197
198
199 # c) Find film titles that contains exactly 10 characters
200 select title as 10CharTitle from film
201 where length(title)=10
202 order by title
203 LIMIT 10;
204
205
206
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
10CharTitle
ALONE TRIP
BASIC EASY
BUGSY SONG
CAUSE DATE
CHILL LUCK
CLUE GRAIL
CRAZY HOME
DATE SPEED
DAZED PUNK
DOLLS RAGE
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
film 119
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:19 PM
11/5/2016

```
# d) Format a payment date using the following format e.g "22/1/2016"
select DATE_FORMAT(payment_date,'%d/%m/%Y') as PaymentDate
from payment
LIMIT 10;
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
View: actors_portfolio
Columns:
film_id smallint(5) UN
actor_id smallint(5) UN
title varchar(255)
name varchar(25)
ActorsName varchar(91)
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
205
206
207
208 # d) Format a payment date using the following format e.g "22/1/2016"
209 select DATE_FORMAT(payment_date,'%d/%m/%Y') as PaymentDate
210 from payment
211 LIMIT 10;
212
213
214
215
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
PaymentDate
25/05/2005
28/05/2005
15/06/2005
15/06/2005
15/06/2005
16/06/2005
18/06/2005
18/06/2005
21/06/2005
08/07/2005
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 120
Read Only
Output
Action Output
Time Action Message Duration / Fetch
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Ask me anything
10:20 PM
11/5/2016

 # e) Find the number of days between two date values rental date & return date

```
select DATE_FORMAT(rental_date,'%Y-%m-%d') as rental_date,
    DATE_FORMAT(return_date,'%Y-%m-%d') as return_date,
    datediff(return_date, rental_date) as NumberOfDaysBetween from rental
    order by NumberOfDaysBetween
    DESC LIMIT 10;
```

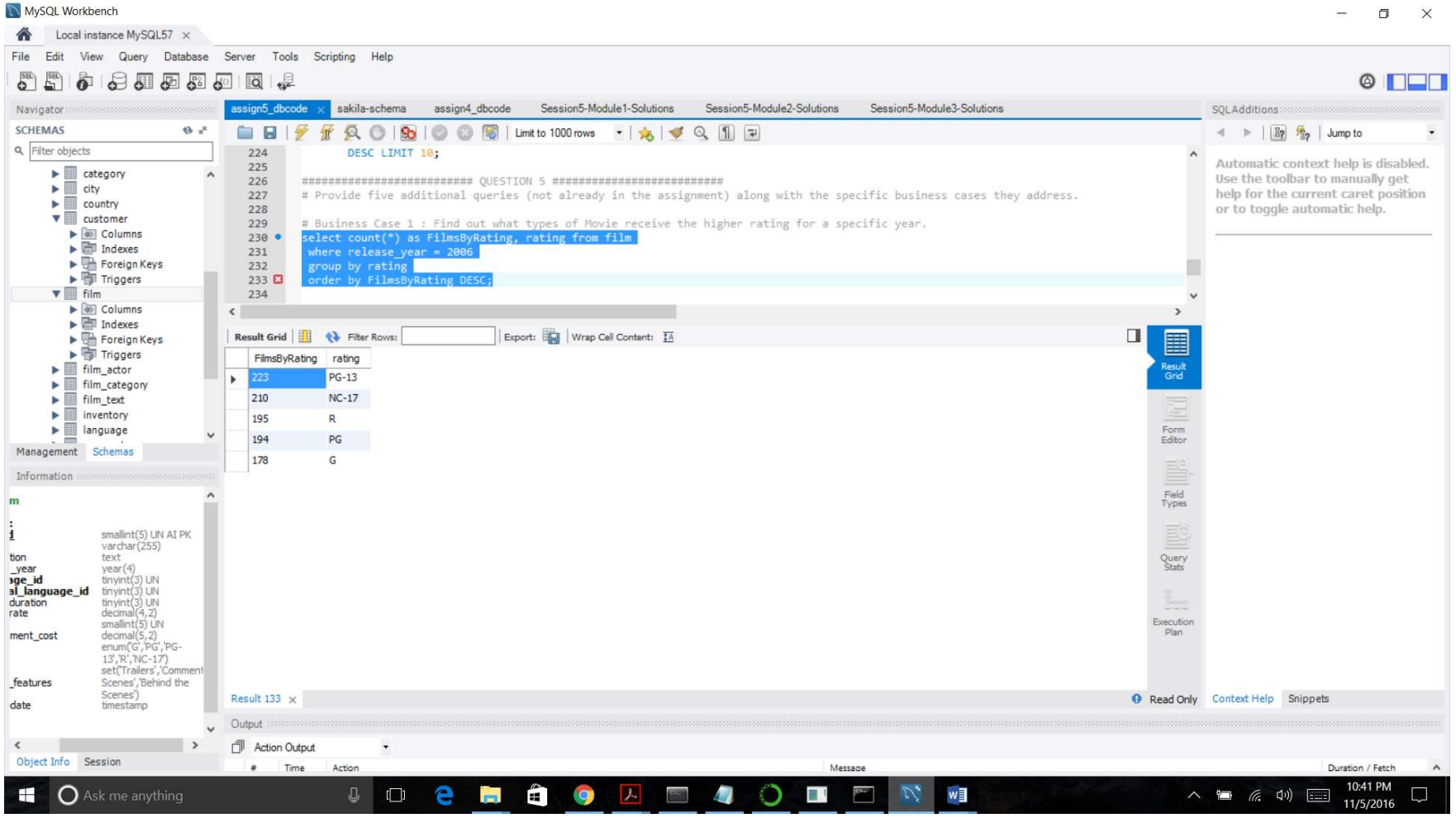

MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
language
payment
rental
staff
store
Views
actor_info
actors_portfolio
film_id
actor_id
title
name
ActorsName
customer_list
film_list
nicer_but_slower_film_lis
sales_by_film_category
Management Schemas
Information
View: actors_portfolio
Columns:
film_id smallint(5) UN
actor_id smallint(5) UN
title varchar(255)
name varchar(25)
ActorsName varchar(91)
Object Info Session
assign5_dbcode* sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
214
215
216
217
218
219 # e) Find the number of days between two date values rental_date & return_date
220 select DATE_FORMAT(rental_date,'%Y-%m-%d') as rental_date,
221 DATE_FORMAT(return_date,'%Y-%m-%d') as return_date,
222 datediff(return_date, rental_date) as NumberOfDaysBetween from rental
223 order by NumberOfDaysBetween
224 DESC LIMIT 10;
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
rental_date return_date NumberOfDaysBetween
2005-05-27 2005-06-06 10
2005-05-26 2005-06-05 10
2005-05-25 2005-06-04 10
2005-05-24 2005-06-03 10
2005-05-30 2005-06-09 10
2005-05-26 2005-06-05 10
2005-05-29 2005-06-08 10
2005-05-30 2005-06-09 10
2005-05-25 2005-06-04 10
2005-05-31 2005-06-10 10
Fetch previous frame of records from the data source
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 121
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:21 PM
11/5/2016

########################## QUESTION 5 ##########################

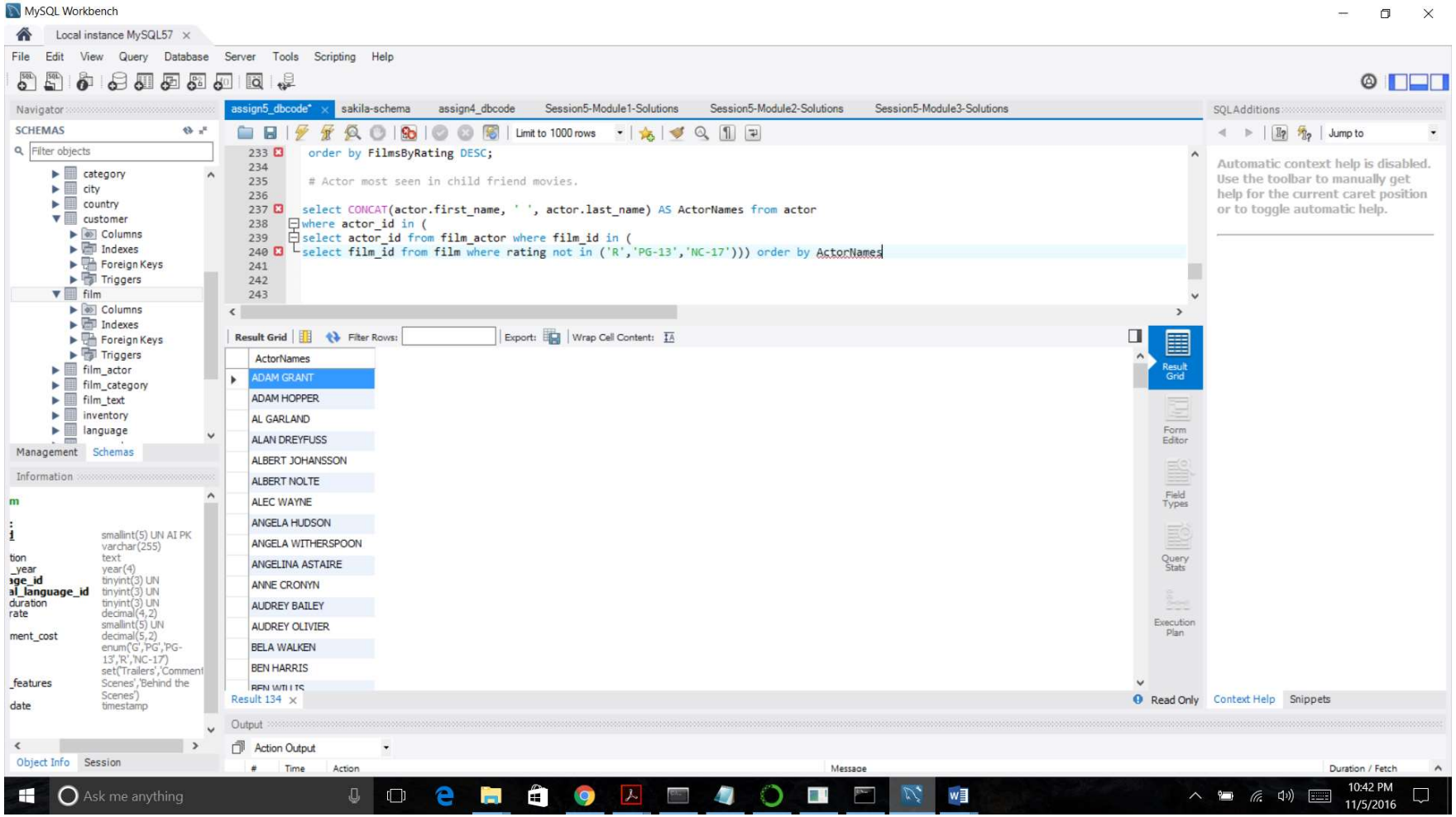
 # Provide five additional queries (not already in the assignment) along with the specific business cases they address.

 # Business Case 1: Sort Movies by Rating. Helps business to find out the type of movies customers rate high.

```
select count(*) as FilmsByRating, rating from film
 where release_year = 2006
 group by rating
 order by FilmsByRating DESC;
```

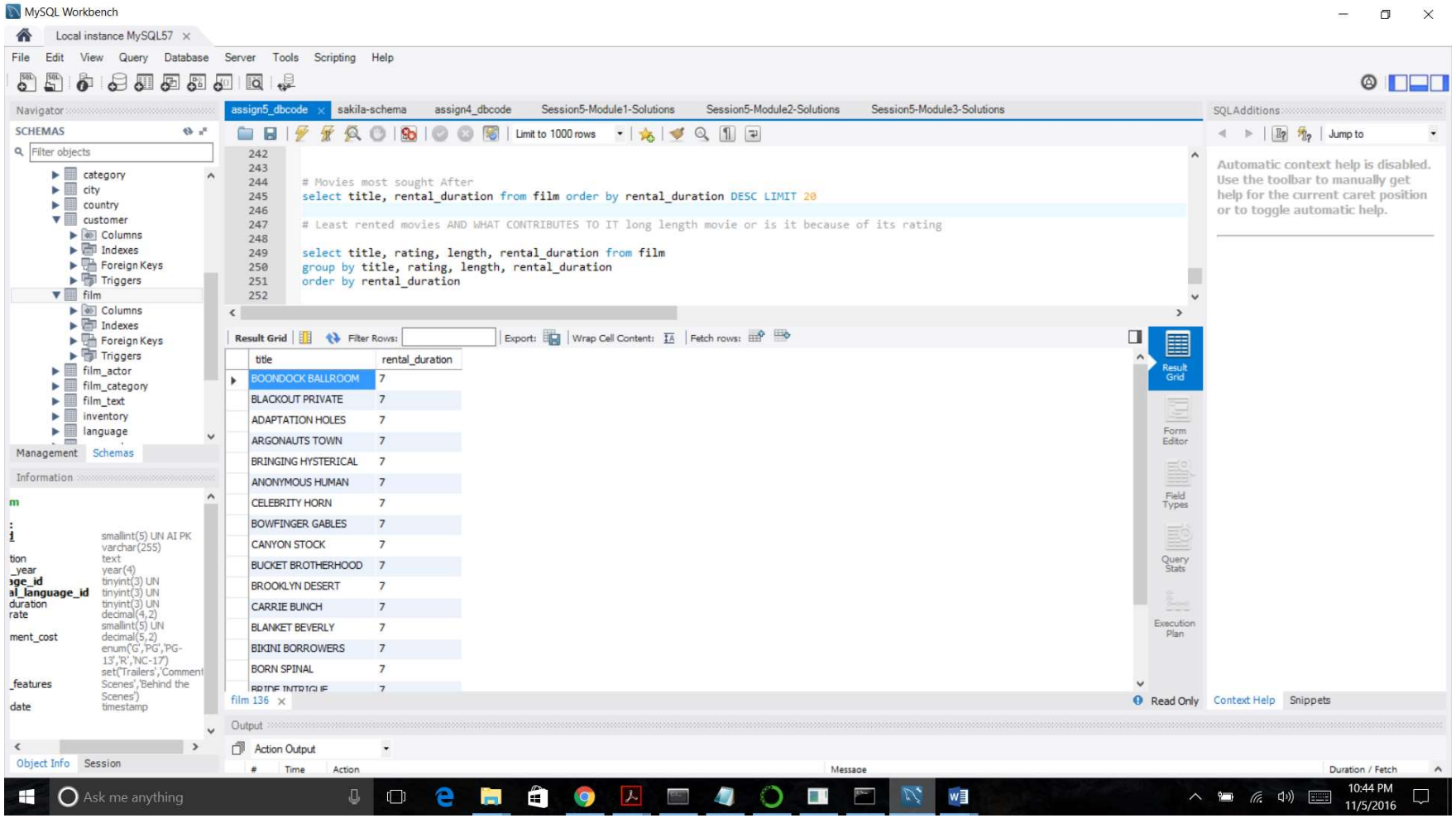

MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
category
city
country
customer
Columns
Indexes
Foreign Keys
Triggers
film
Columns
Indexes
Foreign Keys
Triggers
film_actor
film_category
film_text
inventory
language
Management Schemas
Information
Object Info Session
assign5_dbcode sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
224 DESC LIMIT 10;
225
226 ########################## QUESTION 5 ##########################
227 # Provide five additional queries (not already in the assignment) along with the specific business cases they address.
228
229 # Business Case 1 : Find out what types of Movie receive the higher rating for a specific year.
230 select count(*) as FilmsByRating, rating from film
231 where release_year = 2006
232 group by rating
233 order by FilmsByRating DESC;
234
Result Grid Filter Rows: Export: Wrap Cell Content:
FilmsByRating rating
223 PG-13
210 NC-17
195 R
194 PG
178 G
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 133
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:41 PM
11/5/2016

 # Business Case 2: Actors preferred in Movies suitable for kids with no parental guidance. Helps Producers to hire those Actors.

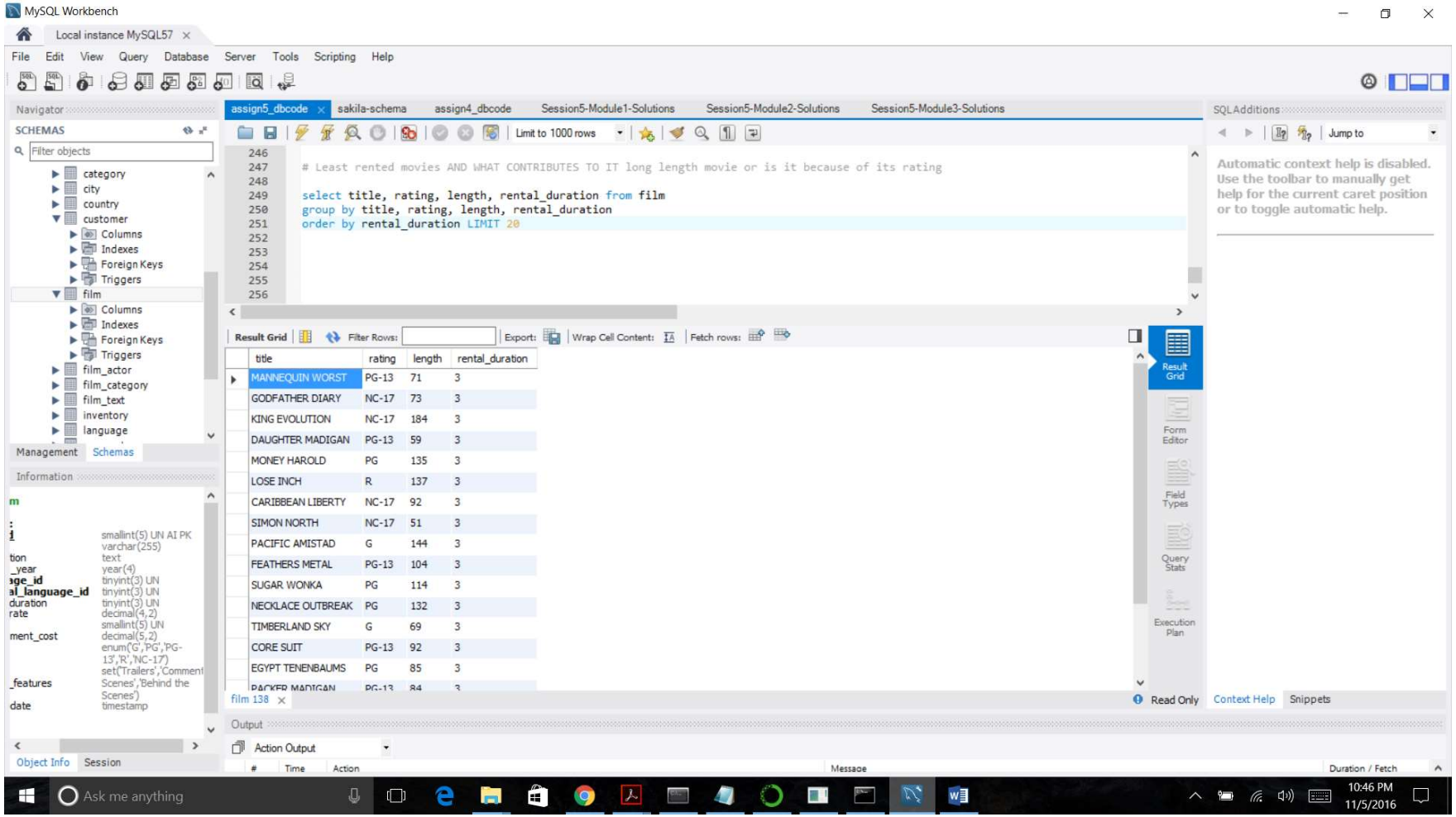


 # Business Case 3: Top 20 Movies sorted on the Rental Duration helps to identify movies Most in Demand so that stores can stock more of it.

select title, rental_duration from film order by rental_duration DESC LIMIT 20

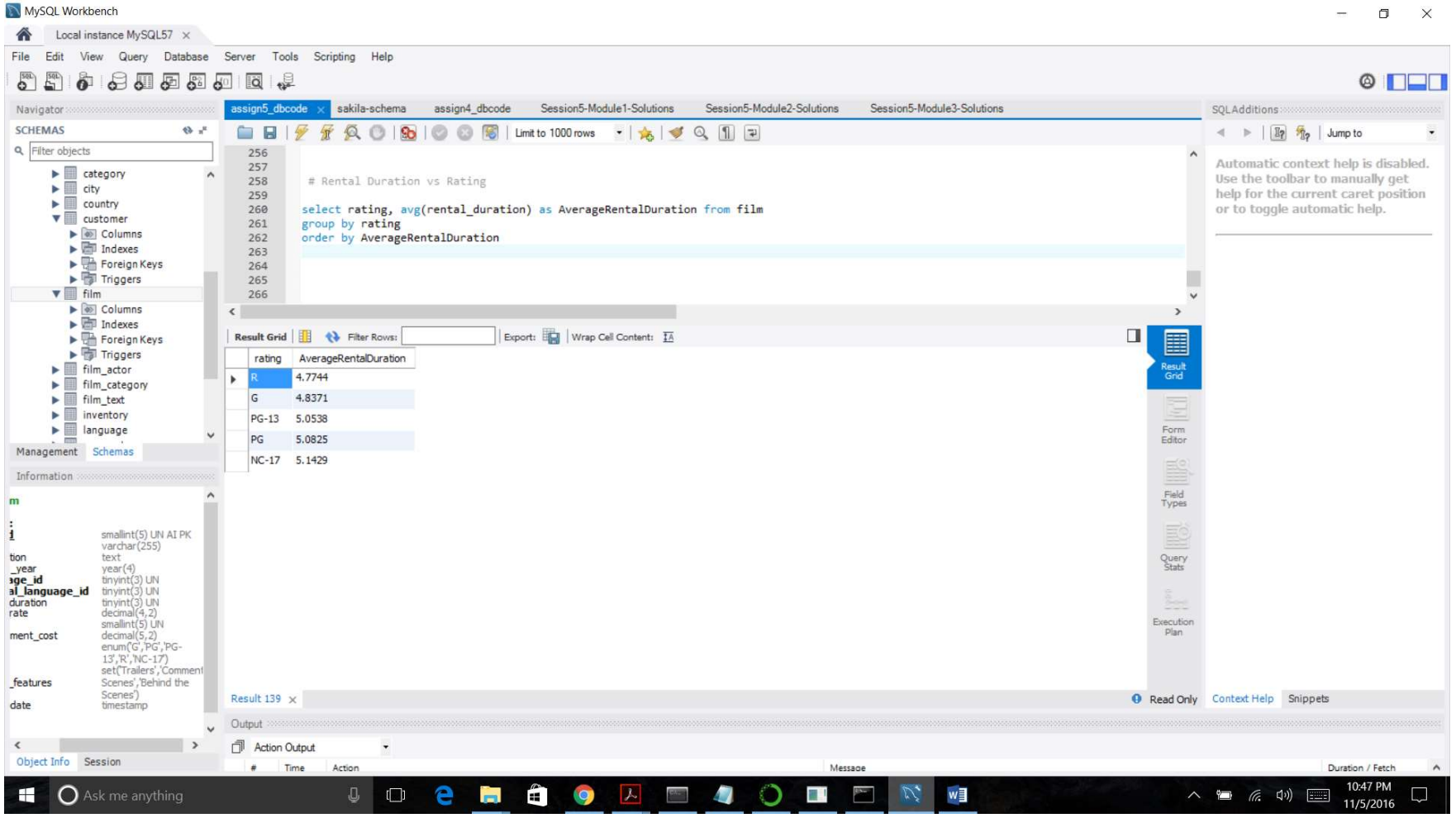


 # Business Case 4: Top 20 Least Duration Rented Movies and the Reasons for it, so that can stock less.



 # Business Case 4: Find out how Rating of the Movies affects the Rental Duration.

```
select rating, avg(rental_duration) as AverageRentalDuration from film
group by rating
order by AverageRentalDuration
```


MySQL Workbench
Local instance MySQL57
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
category
city
country
customer
Columns
Indexes
Foreign Keys
Triggers
film
Columns
Indexes
Foreign Keys
Triggers
film_actor
film_category
film_text
inventory
language
Management Schemas
Information
Object Info Session
assign5_dbcode sakila-schema assign4_dbcode Session5-Module1-Solutions Session5-Module2-Solutions Session5-Module3-Solutions
Limit to 1000 rows
256
257
258 # Rental Duration vs Rating
259
260 select rating, avg(rental_duration) as AverageRentalDuration from film
261 group by rating
262 order by AverageRentalDuration
263
264
265
266
Result Grid Filter Rows: Export: Wrap Cell Content:
rating AverageRentalDuration
R 4.7744
G 4.8371
PG-13 5.0538
PG 5.0825
NC-17 5.1429
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 139
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Ask me anything
10:47 PM
11/5/2016