Administration Schemas ⚡ Query 1

SCHEMAS

Filter objects

> class_examples
> Hw3
∨ Hw4
  ∨ Tables
    > actor
    > address
    > category
    > city
    > country
    > customer
    > film_actor
    > film_category
    > inventory
    ∨ language
      ∨ Columns
        • language_id
        • name
      > Indexes
      > Foreign Keys
      > Triggers
    > payment
    > rental
    > staff
    > store
  > Views
  > Stored Procedures
  > Functions
> Papa_Johns
> sakila
> sys

Limit to 1000 rows

```
132        foreign key (rental_id) references rental(rental_id)
133  );
134
135  -- 1. average film length
136  SELECT
137      c.name AS category,                    -- Category name
138      ROUND(AVG(f.length), 2) AS avg_length_minutes
139  FROM category c
140  JOIN film_category fc ON fc.category_id = c.category_id  -- Join to connect categories with films
141  JOIN film f ON f.film_id = fc.film_id              -- Join to get each films length
142  GROUP BY c.name
143  ORDER BY c.name;
144
```

100%   22:143

Result Grid | Filter Rows: Search | Export:

category	avg_length_minut...
Action	111.61
Animation	111.02
Children	109.80
Classics	111.67
Comedy	115.83
Documentary	108.75
Drama	120.84
Family	114.78
Foreign	121.70
Games	127.84
Horror	112.48
Music	113.65
New	111.13
Sci-Fi	108.20
Sports	128.20

Result 47

Read Only

Result Grid
Form Editor
Field Types
Query

Action Output

	Time	Action	Response	Duration / Fetch Time
218	22:34:50	WITH actor_counts AS (SELECT a.actor_id, -- Actor I...	1 row(s) returned	0.040 sec / 0.000055...
219	22:35:02	SELECT COUNT(DISTINCT i.film_id) AS distinct_movies_10_days -- Co...	1 row(s) returned	0.033 sec / 0.000010...
220	22:35:14	WITH cast_sizes AS (SELECT fa.film_id, -- Film ID CO...	15 row(s) returned	0.0086 sec / 0.00001...
221	22:37:13	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.016 sec / 0.000048...
222	23:05:22	SELECT c.name AS category, -- Category name ROUND(A...	16 row(s) returned	0.046 sec / 0.00006...

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Limit to 1000 rows

```
145  -- 2 Which categories have the longest and shortest average film lengths?
146  WITH avg_lengths AS (
147      SELECT
148          c.name AS category,                    -- Category name
149          AVG(f.length) AS avg_len                -- Average film length
150      FROM category c
151      JOIN film_category fc ON fc.category_id = c.category_id  -- Join to link films and categories
152      JOIN film f ON f.film_id = fc.film_id              -- Get each film's length
153      GROUP BY c.name                              -- Group by category
154  )
155  SELECT
156      'longest' AS type,
157      category,
158      ROUND(avg_len, 2) AS avg_length_minutes
159  FROM avg_lengths
160  WHERE avg_len = (SELECT MAX(avg_len) FROM avg_lengths)    -- Long category
161  UNION ALL
162  SELECT
163      'shortest', category, ROUND(avg_len, 2)
164  FROM avg_lengths
165  WHERE avg_len = (SELECT MIN(avg_len) FROM avg_lengths);    -- Short category
```

100%   1:166

Result Grid | Filter Rows: Search | Export:

type	category	avg_length_minut...
longest	Sports	128.20
shortest	Sci-Fi	108.20

Result 48

Read Only

Result Grid

Action Output

	Time	Action	Response	Duration / Fetch Time
219	22:35:02	SELECT COUNT(DISTINCT i.film_id) AS distinct_movies_10_days -- Co...	1 row(s) returned	0.033 sec / 0.000010...
220	22:35:14	WITH cast_sizes AS (SELECT fa.film_id, -- Film ID CO...	15 row(s) returned	0.0086 sec / 0.00001...
221	22:37:13	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.016 sec / 0.000048...
222	23:05:22	SELECT c.name AS category, -- Category name ROUND(A...	16 row(s) returned	0.046 sec / 0.00006...
223	23:06:23	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.026 sec / 0.000018...

Administration   Schemas   Query 1

SCHEMAS

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Limit to 1000 rows

```
172
173
174  FROM customer cu
175  WHERE EXISTS (
176      SELECT 1
177      FROM rental r
178      JOIN inventory i ON i.inventory_id = r.inventory_id      -- Connect rentals to inventory
179      JOIN film_category fc ON fc.film_id = i.film_id          -- Link inventory to films
180      JOIN category c ON c.category_id = fc.category_id
181      WHERE r.customer_id = cu.customer_id
182      AND c.name = 'Action'                                    -- Must have rented an Action movie
183  )
184  AND NOT EXISTS (                                             -- cannot rent comedy or classics
```

100%   1:194

Result Grid | Filter Rows: Search | Edit: | Export/Import: |

customer_id	first_name	last_name
433	DON	BONE
432	EDWIN	BURK
139	AMBER	DIXON
223	MELINDA	FERNANDEZ
445	MICHEAL	FORMAN
250	JO	FOWLER
350	JUAN	FRALEY
164	JOANN	GARDNER
361	LAWRENCE	LAWTON
323	MATTHEW	MAHAN
452	TOM	MILNER
232	CONSTAN...	REID
330	SCOTT	SHELLEY
17	DONNA	THOMPSON
171	DOLORES	WAGNER
90	RUBY	WASHINGT...
213	GINA	WILLIAMSON

customer 49   Apply

Action Output

	Time	Action	Response	Duration / Fetch Time
220	22:35:14	WITH cast_sizes AS (SELECT fa.film_id, -- Film ID CO...	15 row(s) returned	0.0086 sec / 0.00001...
221	22:37:13	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.016 sec / 0.00004...
222	23:05:22	SELECT c.name AS category, -- Category name	16 row(s) returned	0.046 sec / 0.00006...
223	23:06:23	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.026 sec / 0.000018...
224	23:06:59	SELECT DISTINCT cu.customer_id, -- Customer ID cu.firs...	17 row(s) returned	0.111 sec / 0.000014...

Administration   Schemas   Query 1

CHEMAS

Filter objects

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Limit to 1000 rows

```
196
197
198  SELECT
199      a.actor_id,                        -- Actor ID
200      a.first_name,                      -- First name
201      a.last_name,                       -- Last name
202      COUNT(DISTINCT f.film_id) AS english_films  -- distinct english films
203  FROM actor a
204  JOIN film_actor fa ON fa.actor_id = a.actor_id
205  JOIN film f ON f.film_id = fa.film_id
206  JOIN language l ON l.language_id = f.language_id
207  WHERE l.name = 'English'              -- filter only english
208  GROUP BY a.actor_id, a.first_name, a.last_name  -- group by actor
209  )
210  SELECT
211      actor_id,
212      first_name,
213      last_name,
214      english_films
215  FROM actor_counts
216  WHERE english_films = (SELECT MAX(english_films) FROM actor_counts)
217  ORDER BY last_name, first_name;       -
218
```

100%   1:219

Result Grid | Filter Rows: Search | Export: |

actor_id	first_name	last_name	english_fil...
107	GINA	DEGENERES	42

Result 50   Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
222	23:05:22	SELECT c.name AS category, -- Category name ROUND(A...	16 row(s) returned	0.046 sec / 0.00006...
223	23:06:23	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.026 sec / 0.000014...
224	23:06:59	SELECT DISTINCT cu.customer_id, -- Customer ID cu.firs...	17 row(s) returned	0.111 sec / 0.000014...
225	23:07:28	WITH actor_counts AS (SELECT a.actor_id, -- Actor I...	1 row(s) returned	0.044 sec / 0.00002...
226	23:07:28	-	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to yo...	0.392 sec

Administration | Schemas | Query 1

SCHEMAS
Filter objects

- class_examples
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- sakila
- sys

```sql
215     FROM actor_counts
216     WHERE english_films = (SELECT MAX(english_films) FROM actor_counts)
217     ORDER BY last_name, first_name;
218
219
220     -- 5.  distinct films rented for exactly 10 days from the store managed by Mike
221  •  SELECT
222         COUNT(DISTINCT i.film_id) AS distinct_movies_10_days    -- Count unique film IDs
223     FROM rental r
224     JOIN inventory i ON i.inventory_id = r.inventory_id
225     JOIN store s ON s.store_id = i.store_id
226     WHERE s.store_id = (
227         SELECT st.store_id
228         FROM staff st
229         WHERE st.first_name = 'Mike'                  -- Find store managed by mike
230         LIMIT 1
231     )
232     AND r.return_date IS NOT NULL
233     AND DATEDIFF(r.return_date, r.rental_date) = 10;         -- rented exactly for 10 days
234
235
```
100%   1:234

Result Grid | Filter Rows: Search | Export:

distinct_movies_10_da...
61

Result 51   Read Only

Action Output

		Time	Action	Response	Duration / Fetch Time
✓	223	23:06:23	WITH avg_lengths AS (SELECT c.name AS category, -- Ca...	2 row(s) returned	0.026 sec / 0.000018...
✓	224	23:06:59	SELECT DISTINCT cu.customer_id, -- Customer ID cu.firs...	17 row(s) returned	0.111 sec / 0.000014...
✓	225	23:07:28	WITH actor_counts AS (SELECT a.actor_id, -- Actor I...	1 row(s) returned	0.044 sec / 0.00002...
✗	226	23:07:28	-	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to yo...	0.392 sec
✓	227	23:08:28	SELECT COUNT(DISTINCT i.film_id) AS distinct_movies_10_days -- Co...	1 row(s) returned	0.037 sec / 0.000014...

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```sql
236     -- 6.  largest number of actors and list all actors who appear in those movies.
237
238  • WITH cast_sizes AS (
239         SELECT
240             fa.film_id,                    -- Film ID
241             COUNT(*) AS cast_count          -- Number of actors in each film
242         FROM film_actor fa
243         GROUP BY fa.film_id                  -- Group by film to get cast size
244     ),
245     max_cast AS (
246         SELECT film_id
247         FROM cast_sizes
```
100%   1:258

Result Grid | Filter Rows: Search | Export:

actor_id	first_name	last_name
47	JULIA	BARRYMORE
37	VAL	BOLGER
81	SCARLETT	DAMON
138	LUCILLE	DEE
28	WOODY	HOFFMAN
170	MENA	HOPPER
45	REESE	KILMER
61	CHRISTIAN	NEESON
150	JAYNE	NOLTE
75	BURT	POSEY
53	MENA	TEMPLE
102	WALTER	TORN
147	FAY	WINSLET
111	CAMERON	ZELLWEGER
186	JULIA	ZELLWEGER

Result 52   Read Only

Action Output

		Time	Action	Response	Duration / Fetch Time
✓	224	23:06:59	SELECT DISTINCT cu.customer_id, -- Customer ID cu.firs...	17 row(s) returned	0.111 sec / 0.000014...
✓	225	23:07:28	WITH actor_counts AS (SELECT a.actor_id, -- Actor I...	1 row(s) returned	0.044 sec / 0.00002...
✗	226	23:07:28	-	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to yo...	0.392 sec
✓	227	23:08:28	SELECT COUNT(DISTINCT i.film_id) AS distinct_movies_10_days -- Co...	1 row(s) returned	0.037 sec / 0.000014...
✓	228	23:08:45	WITH cast_sizes AS (SELECT fa.film_id, -- Film ID CO...	15 row(s) returned	0.012 sec / 0.000017...