mySQL sakila 資料庫查詢練習

交作業 <https://forms.gle/A89SgNno39bN9YR97>

1. 列出 category 的類別名稱(name) 為 'Horror' 之類別代號

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) name FROM category where name = "Horror";

2. 列出 category 的類別號(category\_id) 為 1, 3, 5, 7, 9 之類別名稱

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) name FROM category WHERE category\_id = 1 [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) category\_id = 3 [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) category\_id = 5 [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) category\_id = 7 [or](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) category\_id = 9;

3. 列出 city中城市代號 (city\_id) 為561之 城市所有欄位資料

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM city where city\_id = 561;

4. 列出 city中城市名稱 (city) 包含 'Da' (大小寫需符合) 之城市所有欄位資料

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM city where city [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) [BINARY](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/cast-functions.html%23operator_binary)'%Da%';

5. film 中重置成本(replacement cost) 介於 12.50 到 15.50 之間的影片所有欄位資料

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM film where replacement\_cost between 12.50 [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) 15.50;

6. film 中每個等級(rating)各有多少部影片

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(\*) AS number, rating FROM film GROUP BY rating;

7. payment 中付款日期 (payment\_date) 在2005年7月份之最大的付款金額是多少

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [MAX](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_max)(amount) FROM payment

WHERE

EXTRACT(YEAR FROM payment\_date) = 2005

[AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and)

EXTRACT(MONTH FROM payment\_date) = 7;

8. payment中 2005年那一位顧客最經常在 22:00~24:00付款

SELECT customer\_id, amount FROM payment

WHERE

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) customer\_id, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(customer\_id) AS payment\_count FROM payment

WHERE

EXTRACT(YEAR FROM payment\_date) = 2005 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) EXTRACT(HOUR FROM payment\_date) >= 22 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) EXTRACT(HOUR FROM payment\_date) < 24

GROUP BY customer\_id

ORDER BY payment\_count DESC LIMIT 1;

9. rental 中所有紀錄的平均租借日期是多久(?天 ?小時)

SELECT AVG

(

DATEDIFF(return\_date, rental\_date)

)

AS average\_rental\_duration

FROM rental;

10. 列出電話號碼是 860452626434 的顧客的姓名

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) customer.first\_name, customer.last\_name

FROM customer

JOIN address ON customer.address\_id = address.address\_id

WHERE address.phone = 860452626434;

11. 列出sakila資料庫裡，中國(China) 有哪些城市

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) city

FROM city

JOIN country ON city.country\_id = country.country\_id

WHERE country.country = 'China';

12. 由小到大列出每影片被租借的金額

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) film.title, [SUM](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(payment.amount) AS total\_amount

FROM film

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 film.title

ORDER BY total\_amount;

13. 顧客代號 (customer\_id) 為334的顧客，在 2005/07/30租借的影片，影片名稱是什麼?

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) title

FROM film

JOIN inventory on film.film\_id = inventory.film\_id

JOIN rental on rental.inventory\_id = inventory.inventory\_id

WHERE customer\_id = 334 [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) rental\_date BETWEEN "2005/07/30 00:00:00" [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) "2005/07/30 23:59:59";

14.建立一個檢視表 vStaff1Rental，欄位與rental相同，但裡面只包含所有員工代號(staff\_id) 為1號的員工之所有紀錄

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-view.html) [VIEW](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-view.html) vStaff1Rental

AS

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM rental WHERE staff\_id = 1;