ALL CODE:

USE sakila;

#1a

SELECT first\_name,last\_name

FROM actor;

#1b

SELECT

CONCAT(first\_name, ' ', last\_name) AS Actor\_Name

FROM actor;

#2a

SELECT actor\_id,first\_name,last\_name

FROM actor

WHERE first\_name = 'Joe';

#2b

SELECT first\_name, last\_name

FROM actor

WHERE last\_name LIKE '%GEN%';

#2c

SELECT last\_name,first\_name

FROM actor

WHERE last\_name LIKE '%LI%';

#2d

SELECT country\_id,country

FROM country

WHERE country IN ('Afghanistan', 'Bangladesh', 'China');

#3a

ALTER TABLE actor

ADD COLUMN middle\_name VARCHAR(45)

AFTER first\_name;

#3b

ALTER TABLE actor

MODIFY COLUMN middle\_name BLOB;

#3c

ALTER TABLE actor

DROP COLUMN middle\_name;

#4a

SELECT last\_name, COUNT(1) as count

FROM actor

GROUP BY last\_name

ORDER BY count DESC;

#4b

SELECT last\_name, COUNT(1) as count

FROM actor

GROUP BY last\_name

HAVING count >= 2;

#4c

UPDATE actor

SET first\_name = 'HARPO'

WHERE actor\_id = 172;

#4d

UPDATE actor

SET first\_name =

CASE WHEN first\_name ="GROUCHO" THEN "MUCHO GROUCHO"

WHEN first\_name = "HARPO" THEN "GROUCHO"

ELSE first\_name = first\_name END;

#5a

SHOW CREATE TABLE address;

#6a

SELECT staff.first\_name, staff.last\_name, staff.address\_id

FROM staff

JOIN address

ON staff.address\_id = address.address\_id;

SELECT \*

FROM payment

WHERE payment\_date LIKE '2005-08-%';

#6b

SELECT payment.staff\_id, payment.payment\_date,

SUM(payment.amount) AS total\_amount

FROM payment

JOIN (SELECT staff.staff\_id, staff.first\_name, staff.last\_name

FROM staff) x ON x.staff\_id = payment.staff\_id

WHERE payment.payment\_date LIKE '2005-08%'

GROUP BY payment.staff\_id;

#6c

SELECT actor\_id,count(\*) as count

FROM film\_actor

INNER JOIN film ON film\_actor.film\_id = film.film\_id

GROUP BY film.title

ORDER by count DESC;

SELECT title,count(\*) as count

FROM film

INNER JOIN film\_actor ON film.film\_id = film\_actor.film\_id

GROUP BY film.title

ORDER by count DESC;

#6d

SELECT film.title,film.film\_id, count(\*) as count

FROM film

JOIN inventory ON inventory.film\_id = film.film\_id

WHERE film.title LIKE 'Hunchback Impossible';

#6e

SELECT \* FROM payment;

SELECT \* FROM customer;

SELECT customer.last\_name, customer.first\_name, SUM(payment.amount)

FROM customer

INNER JOIN payment ON customer.customer\_id = payment.customer\_id

GROUP BY customer.last\_name, customer.first\_name;

SELECT \* FROM film

WHERE film.title LIKE "K%" OR film.title LIKE "Q%" AND film.language\_id in

(

SELECT language\_id FROM language WHERE language.name LIKE "English");

#7b

SELECT \* FROM film;

SELECT \* FROM film\_actor;

SELECT \* FROM actor;

SELECT actor.first\_name, actor.last\_name

FROM actor WHERE actor.actor\_id IN

(

SELECT film\_actor.actor\_id FROM film\_actor WHERE film\_actor.film\_id IN

(SELECT film.film\_id FROM film WHERE film.title LIKE "Alone Trip")

);

#7c

SELECT \* FROM country;

SELECT \* FROM customer;

SELECT \* FROM address;

SELECT \* FROM city;

SELECT customer.first\_name, customer.last\_name, customer.email

FROM customer

WHERE customer.address\_id IN

(SELECT address.address\_id FROM address

WHERE address.city\_id IN

(SELECT city.city\_id FROM city

WHERE city.country\_id IN

(SELECT country.country\_id FROM country

WHERE country LIKE "Canada"))

);

#7d

SELECT \* FROM film;

SELECT \* FROM film\_category;

SELECT \* FROM category;

SELECT film.title, film.description FROM film

WHERE film\_id IN

(

SELECT film\_category.film\_id FROM film\_category

WHERE film\_category.category\_id IN

(

SELECT category.category\_id FROM category

WHERE category.name LIKE "Family")

);

#7e

SELECT \* FROM rental;

SELECT \* FROM inventory;

SELECT \* FROM film;

SELECT film.title, COUNT(film.title) AS film\_count

FROM film,inventory, rental

WHERE film.film\_id = inventory.film\_id AND inventory.inventory\_id = rental.inventory\_id

GROUP BY 1 ORDER BY film\_count desc;

#7f

SELECT \* FROM store;

SELECT \* FROM inventory;

SELECT \* FROM rental;

SELECT \* FROM payment;

SELECT store.store\_id, SUM(payment.amount) AS total\_amount

FROM store, payment, staff

WHERE store.store\_id = staff.store\_id AND staff.staff\_id = payment.staff\_id

GROUP BY 1;

SELECT \* FROM payment where rental\_id is NULL;

#7g

SELECT \* FROM store;

SELECT \* FROM address;

SELECT \* FROM city;

SELECT \* FROM country;

SELECT store.store\_id, city.city, country.country

FROM store, address, city, country

WHERE

store.address\_id = address.address\_id AND address.city\_id = city.city\_id AND city.country\_id = country.country\_id;

#7h

SELECT \* FROM category;

SELECT \* FROM film\_category;

SELECT \* FROM inventory;

SELECT \* FROM payment;

SELECT \* FROM rental;

SELECT category.name, SUM(payment.amount) AS gross\_revenue FROM

payment, rental, inventory, film\_category, category

WHERE

payment.rental\_id = rental.rental\_id AND rental.inventory\_id = inventory.inventory\_id

AND inventory.film\_id = film\_category.film\_id AND film\_category.category\_id = category.category\_id

GROUP BY 1 ORDER BY gross\_revenue desc LIMIT 5;

#8a

CREATE VIEW topfive\_revenue\_generes AS

(SELECT category.name, SUM(payment.amount) AS gross\_revenue FROM

payment, rental, inventory, film\_category, category

WHERE payment.rental\_id = rental.rental\_id

AND rental.inventory\_id = inventory.inventory\_id AND inventory.film\_id = film\_category.film\_id

AND film\_category.category\_id = category.category\_id

GROUP BY 1 ORDER BY gross\_revenue);

#8b

SELECT \* FROM topfive\_revenue\_generes

ORDER BY gross\_revenue desc LIMIT 5;

#8c

DROP VIEW `sakila`.`topfive\_revenue\_generes`;