

--Situation: Business need to send out a promotional email to existing customers

```
SELECT first_name, last_name, email  
FROM customer
```

--Situation: An Australian visitor is not familiar with MPAA movie ratings(PG, PG-13, R,etc..). What types of ratings we have in database and what ratings we have available?

```
SELECT DISTINCT rating  
FROM film
```

--Situation: A customer forget their wallet at the store, what is the email for customer name Nancy Thomas

```
SELECT email  
FROM customer  
WHERE first_name = 'Nancy' AND last_name = 'Thomas'
```

--Situation: A customer wants to know what the movie "Outlaw Hanky" is about

```
SELECT description  
FROM film  
WHERE title = 'Outlaw Hanky'
```

--Situation: A customer is late on their movie return and we've mailed them a letter to their address at "259 Ipoh Drive". We need to call them as well. Finding their phone from the address

```
SELECT phone  
FROM address  
WHERE address = '259 Ipoh Drive'
```

--Situation: Business owner wants to reward first 10 paying customer

```
SELECT *  
FROM payment  
ORDER BY payment_date ASC
```

LIMIT 10

--Situation: A customer wants to rent a short movie to watch during their short lunch break. Find 5 shortest movies for her

SELECT title, description, length

FROM film

ORDER BY length ASC

LIMIT 5

--If the previous customer want to watch any movies that is 50 minutes or less in run time, how many option does she have?

SELECT title, description, length

FROM film

WHERE length < '50' or length = '50'

--How many payment transactions were greater than \$5

SELECT COUNT amount

FROM payment

WHERE amount > 5;

--How many actors have a first name that starts with the letter P?

SELECT COUNT *

FROM actor

WHERE first_name LIKE 'P%'

--How many unique districts are our customers from?

SELECT COUNT(DISTINCT (district))

FROM address;

--How many films have a rating of R and a replacement cost between \$5 and \$15

```
SELECT COUNT *
```

```
FROM film
```

```
WHERE rating = 'R'
```

```
AND replacement_cost BETWEEN 5 AND 15
```

```
--How many films have the word TRUMAN somewhere in the title?
```

```
SELECT COUNT *
```

```
FROM film
```

```
WHERE title LIKE '%Truman%';
```

```
--California sales tax laws have changed and business need to send notice to their customer through email. What are the emails of customer who live in California?
```

```
SELECT district, email
```

```
FROM customer
```

```
INNER JOIN address
```

```
ON address.address_id = customer.address_id
```

```
WHERE district = 'California'
```

```
--A customer walks in and is a huge fan of the actor 'Nick Wahlberg' and wants to know which movies he is in. Get a list of all movies that 'Nick Wahlberg' has been in
```

```
SELECT actor.first_name, actor.last_name, actor.actor_id, film.title
```

```
FROM actor
```

```
JOIN film_actor
```

```
ON actor.actor_id = film_actor.actor_id
```

```
JOIN film
```

```
ON film.film_id = film_actor.film_id
```

```
WHERE actor.actor_id = '2'
```

```
--During which months did payments occur?
```

```
SELECT
```

```
DISTINCT(TO_CHAR(payment_date, 'MONTH'))
```

FROM payment

--How many payments occurred on a Monday?

SELECT COUNT(*)

FROM payment

WHERE EXTRACT(dow FROM payment_date)=1

--What movie that have rental rate higher than average rental rate?

SELECT title, rental_rate

FROM film

WHERE rental_rate > (SELECT AVG(rental_rate) FROM film)

--what movies that have been return from May 29th 2005 to May 30th 2005

SELECT film_id, title

FROM film

WHERE film_id IN

(SELECT inventory.film_id

FROM rental

INNER JOIN inventory ON inventory.inventory_id = rental.inventory_id

WHERE return_date BETWEEN '2005-05-29' AND '2005-05-30')

ORDER BY film_id

--Which customer who have at least one payment whose amount is greater than 11

SELECT first_name, last_name

FROM customer AS C

WHERE EXISTS

(SELECT* FROM payment AS P

WHERE P.customer_id = C.customer_id AND amount>11)

--Find all the pairs of film that have the same length

SELECT f1.title, f2.title, f1.length

FROM film AS f1

INNER JOIN film AS f2 ON

f1.film_id != f2.film_id

AND f1.length = f2.length