
--Selecting All Columns

SELECT * **FROM** customer;

--Selecting Specific Columns

SELECT customer_id, first_name, last_name
FROM customer;

SELECT title, release_year, **length**
FROM film;

--Arithmetic Expressions

SELECT 8 * 5 + 4,
120 / 4,
current_date - 2;

SELECT title,
length / 60,
2021 - release_year
FROM film;

--Concatenation Operator

SELECT country_id || ': ' || country
FROM country;

SELECT customer_id || ': ' || first_name || ' ' || last_name
FROM customer;

--Escape Character - E

SELECT 'Computer Engineer';

SELECT 'I'm a Computer Engineer';

SELECT E'I\m a computer engineer';

SELECT customer_id || E'\s: '
|| first_name || '
|| last_name
FROM customer;

--Escape Character - \$\$

```
SELECT $$'I'm a Computer Engineer'$$;
```

```
SELECT $msg$I'm a string constant that contains a backslash \'$msg$;
```

```
--Column Aliases
```

```
SELECT first_name || ' ' || last_name as full_name
FROM customer;
```

```
SELECT title,
       length as length_minute,
       round(length::decimal / 60, 2) as length_hour,
       (2021 - release_year) pass_year
FROM film;
```

```
--Order By - Single Column
```

```
SELECT * FROM film
ORDER BY title
```

```
SELECT district, address, city_id
FROM address
ORDER BY district
```

```
SELECT first_name, last_name, email, address_id
FROM customer
ORDER BY first_name DESC
```

```
--Order By - Multiple Column
```

```
SELECT rating, length, title, rental_rate
FROM film
ORDER BY rating, length DESC;
```

```
SELECT first_name, last_name,
       email, address_id
FROM customer
ORDER BY first_name, last_name
```

```
--Order By - Column Order
```

```
SELECT *
FROM customer
ORDER BY 6
```

```
SELECT first_name, last_name,  
       email, hire_date,  
       job_id, salary  
FROM employees  
ORDER BY 5, 6 DESC
```

```
--Order By - Nulls First, Last
```

```
SELECT * FROM employees  
ORDER BY phone_number NULLS LAST
```

```
SELECT * FROM employees  
ORDER BY phone_number NULLS FIRST
```

```
--Duplicate Rows - DISTINCT
```

```
SELECT DISTINCT special_features  
FROM film
```

```
--Duplicate Rows - DISTINCT ON
```

```
SELECT DISTINCT bcolor, fcolor  
FROM distinct_demo  
ORDER BY bcolor, fcolor;
```

```
SELECT DISTINCT ON (bcolor) bcolor, fcolor  
FROM distinct_demo  
ORDER BY bcolor, fcolor;
```

```
SELECT DISTINCT ON (film_id) film_id, store_id  
FROM inventory  
ORDER BY film_id, store_id;
```

--EXERCISE ANSWERS

--Simple Query

```
SELECT first_name || '.' || last_name || '@dbhunter.com',  
       salary * 1.35  
FROM employees;
```

--DISTINCT

```
SELECT DISTINCT rating  
FROM film  
ORDER BY 1 DESC
```