```sql
1   -- SUBSTRING FUNCTION to be applied to column values
2   SELECT SUBSTRING(column_name, from, count) FROM table_name
3
4   -- REPLACE FUNCTION to select or update certain parts of a column value
5   SELECT REPLACE(column_name, 'old_string', 'new_string') FROM table_name
6
7   UPDATE table_name
8   SET column_name = REPLACE(column_name, 'old_string', 'new_string')
9   WHERE column_name = 'value'
10
11  -- SPLIT_PART FUNCTION splits the column value using a certain delimiter and then we
12  -- choose the field number we want to return
13  SELECT SPLIT_PART(column_name, 'delimiter', 'field_number') FROM table_name
14  SELECT movie_name, SPLIT_PART(movie_name, ' ', 1) AS first_word,
15  SPLIT_PART(movie_name, ' ', 2) AS second_word FROM movies
```

```sql
17  -- THE CAST OPERATOR converts one data type to another
18  -- USING the CAST OPERATOR :: to cast a non-string data type to a string data type
19  SELECT column_name::DATATYPE FROM table_name
20  SELECT date_of_birth::TEXT FROM directors
21  -- Return the year from the date_of_birth column
22  SELECT SPLIT_PART(date_of_birth::TEXT, '_', 1) FROM directors
23  SELECT SPLIT_PART(date_of_birth::VARCHAR(20), '_', 1) FROM directors
24  SELECT SUBSTRING(date_of_birth::TEXT, 1, 4) FROM directors
25
```

Data Output   Explain   Messages   Notifications

substring 🔒 text
1   1965

```sql
2   -- 1. Retrieve the first 6 characters of each movie name and the year they were released
3   SELECT *, SUBSTRING(movie_name, 1, 6) AS first_six_character_movie_name,
4   SPLIT_PART(release_date::TEXT, '_', 1) AS year
5   FROM movies
```

```sql
7   -- 2. Retrieve the first name and last name initial of every actor born in May
8   SELECT *, CONCAT_WS(' ', SUBSTRING(first_name, 1, 1), SUBSTRING(last_name, 1, 1)) AS full_n_initials
9   FROM actors
10  WHERE SPLIT_PART(date_of_birth::TEXT, '-', 02) = '05'
11
12  --  In this case I could have used the LEFT FUNCTION too or EXTRACT to retrieve the month of May
13  SELECT *, CONCAT_WS(' ', LEFT(first_name, 1), LEFT(last_name, 1)) AS initial_full_name
14  FROM actors
15  WHERE EXTRACT(MONTH FROM date_of_birth) = '05'
16
17
```

Data Output Explain Messages Notifications

	actor_id [PK] integer	first_name character varying (30)	last_name character varying (30)	gender character (1)	date_of_birth date	initial_full_name text
1	1	Malin	Akerman	F	1978-05-12	M A
2	15	Min-sik	Choi	M	1962-05-30	M C
3	16	Yun-fat	Chow	M	1955-05-18	Y C
4	21	Scatman	Crothers	M	1910-05-23	S C

```sql
18  -- 3. Change the movie language for all English Language movies, with age certificate
19  -- rating 18, to 'Eng'
20  UPDATE movies
21  SET movie_lang = REPLACE(movie_lang, 'English', 'Eng')
22  WHERE movie_lang = 'English' AND age_certificate = '18'
23
```

Data Output Explain Messages Notifications

```
UPDATE 0

Query returned successfully in 86 msec.
```