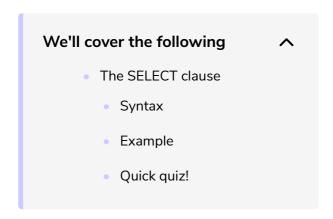
#### The SELECT Clause

In this lesson, we will take a look at the SELECT statement.



## The SELECT clause #

The SQL **SELECT** statement is used to fetch the data from a database table that returns this data in the form of a result table. These result tables are called **result-sets**.

#### Syntax #

The basic syntax of the **SELECT** statement is as follows:

```
SELECT column1, column2, ... columnN FROM table_name;
```

Here, **SELECT** specifies the column1, column2... to be selected and the **FROM** clause specifies from which table these columns are to be selected.

If you want to fetch all the fields available in the table, then you can use the following syntax:

```
SELECT * FROM table_name;
```

### Example #

Consider the CUSTOMERS table we used in the last lesson:

ID	NAME	AGE	ADDRESS	SALARY
1	Mark	32	Texas	50000.00
2	John	25	NY	65000.00
3	Emily	23	Ohio	20000.00
4	Bill	25	Chicago	75000.00
5	Tom	27	Washington	35000.00
6	Jane	22	Texas	45000.00

Let's say we want to fetch the ID, Name and Salary fields of the customers available in the CUSTOMERS table. To do this we must specify these three column names after the SELECT statement. The following code shows how this is possible:

```
CREATE TABLE CUSTOMERS(
                                                                                       G
      INT
                       NOT NULL,
 NAME VARCHAR (20) NOT NULL,
 AGE INT
                       NOT NULL,
 ADDRESS CHAR (25),
 SALARY DECIMAL (18, 2), /* The (18,2) simply means that we can have 18 digits with 2 of
 PRIMARY KEY (ID)
);
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (1, 'Mark', 32, 'Texas', 50000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (2, 'John', 25, 'NY', 65000.00);
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (3, 'Emily', 23, 'Ohio', 20000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (4, 'Bill', 25, 'Chicago', 75000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (5, 'Tom', 27, 'Washington', 35000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (6, 'Jane', 22, 'Texas', 45000.00 );
CELECT TO NAME CALADY EDOM CLICTOMEDS.
```

The **SELECT** statement on **line 28** is used to fetch the data in the specified columns.

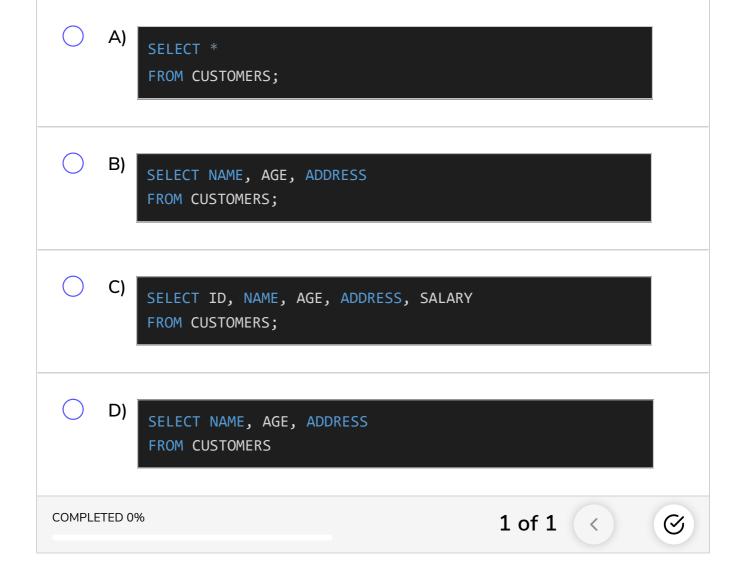
Now let's fetch all of the columns using \* after the SELECT clause in the CUSTOMERS table:

```
CREATE TABLE CUSTOMERS(
                                                                                       6
      INT
                       NOT NULL,
 NAME VARCHAR (20)
                       NOT NULL,
 AGE INT
                       NOT NULL,
 ADDRESS CHAR (25),
 SALARY DECIMAL (18, 2), /* The (18,2) simply means that we can have 18 digits with 2 of
 PRIMARY KEY (ID)
);
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (1, 'Mark', 32, 'Texas', 50000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (2, 'John', 25, 'NY', 65000.00);
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (3, 'Emily', 23, 'Ohio', 20000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (4, 'Bill', 25, 'Chicago', 75000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (5, 'Tom', 27, 'Washington', 35000.00 );
INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
VALUES (6, 'Jane', 22, 'Texas', 45000.00 );
SELECT * FROM CUSTOMERS;
```

# Quick quiz! #



Which of the following SELECT statements will display the NAME, AGE and ADDRESS columns only?



In the next lesson, we will discuss how to use the WHERE clause.