



Practice SQL SELECT Queries

This page provides exercises and solutions to help you practice SQL SELECT queries. These exercises are based on the [ACDB database](#), and may be performed [online](#) or by running the sample schema scripts on your local database server. For additional exercises in other subjects, use this [link](#).

Simple SQL SELECT Queries – Practice

1. Create a query to display all the data from the *Customers* table.
2. The following SELECT statement executes successfully (True / False)

```
1 | FROM Customers
2 | SELECT last_name , first_name
```

1. Create a query to display the internet package number, internet speed and monthly payment (*Packages* table).
2. The following SELECT statement executes successfully (True / False)

```
1 | SELECT strt_date, monthly_payment
2 | FROM packages
```

1. The following SELECT statement executes successfully (True / False)

```
1 | SeleCT      last_NAME , firST_NamE , FROM customers
```

1. Create a query to display the customer number, first name, last name, primary phone number, secondary phone number and package number (*Customers* table).
2. Create a query to display first name, last name, join date, monthly discount, monthly discount after an addition of 20% and monthly discount after a reduction of 20% (*Customers* table).

3. Create a query to display the package number, speed, strt_date (the date when the package became available), monthly payment, and monthly payment * 12, name the last column "YearlyPayment" (*Packages* table).
4. Create a query to display the last name concatenated with the first name, separated by space, and main phone number concatenated with secondary phone number, separated by comma and space. Name the column heading FULL_NAME and CONTACT_DETAILS respectively. (*Customers* table)
5. Create a query to display unique cities from the *Customers* table.
6. Create a query to display unique states from the *Customers* table.
7. Create a query to display unique combination of cities and states from *Customers* table.
8. Create a query to display the last name concatenated with the state, separated by space. Name this column CUSTOMER_AND_STATE (*Customers* table)
9. Create a query to display the first name, last name, monthly discount and city concatenated with street, separated by space. Name the column headings: FN, LN, DC and FULL_ADDRESS respectively (*Customers* table).
10. Create a query to display unique monthly discounts in *Customers* table.
11. Create a query to display unique packages (package_id) in *Customers* table.

Solutions – SQL Server

These solutions apply to SQL Server, for solutions that apply to Oracle click [here](#).

```
01 | -- 1
02 | SELECT * FROM customers
03 | -- 2
04 | -- Error, FROM clause must follow SELECT Clause
05 | -- 3
06 | SELECT pack_id , speed, monthly_payment AS 'MP' FROM package:
07 | -- 4
08 | -- Query executes successfully :
```

```
09 SELECT strt_date , monthly_paymentFROM packages
10 -- 5
11 -- Error, comma cannot follow last column in the SELECT clau:
12 SeleCT last_NAME , fiRST_NamE , FROM customers
13 -- 6
14 SELECT customer_id, first_name , last_name , main_phone_num
15 secondary_phone_num , pack_id
16 FROM customers
17 -- 7
18 SELECT first_name , last_name , join_date , monthly_discount
19 monthly_discount * 1.2 AS 'DC_N' , monthly_discount * 0.6 AS
20 FROM customers
21 -- 8
22 SELECT pack_id , speed, strt_date, monthly_payment,
23 monthly_payment * 12 AS 'Y_INCOME'
24 FROM packages
25 -- 9
26 SELECT first_name + ' ' + last_name AS 'FULL_NAME' ,
27 main_phone_num + ' , ' + secondary_phone_num AS 'CONTACT_DET
28 FROM customers
29 -- 10
30 SELECT DISTINCT city FROM customers
31 -- 11
32 SELECT DISTINCT state FROM customers
33 -- 12
34 SELECT DISTINCT state, city FROM customers
35 -- 13
36 SELECT last_name + ' ' + state AS 'CUSTOMER_AND_STATE'FROM ci
37 -- 14
38 SELECT first_name AS 'FN' ,last_name AS 'LN' ,
39 monthly_discount AS 'DC' ,city + ' ' + street AS 'FULL_ADDRE
40 FROM customers
41 -- 15
42 SELECT DISTINCT monthly_discount FROM customers
43 -- 16
44 SELECT DISTINCT pack_idFROM customers
```

Solutions – Oracle

```
01  -- 1
02  SELECT * FROM customers
03  -- 2
04  -- Error, FROM clause must follow SELECT Clause
05  -- 3
06  SELECT pack_id , speed, monthly_payment AS "MP" FROM package:
07  -- 4
08  -- Query executes successfully :
09  SELECT strt_date , monthly_payment FROM packages
10  -- 5
11  -- Error, comma cannot follow last column in the SELECT clau:
12  SeleCT last_NAME , fiRST_NamE , FROM customers
13  -- 6
14  SELECT customer_id, first_name , last_name , main_phone_num
15  secondary_phone_num , pack_id
16  FROM customers
17  -- 7
18  SELECT first_name , last_name , join_date , monthly_discount
19  monthly_discount * 1.2 AS "DC_N" , monthly_discount * 0.6 AS
20  FROM customers
21  -- 8
22  SELECT pack_id , speed, strt_date, monthly_payment,
23  monthly_payment * 12 AS "Y_INCOME"
24  FROM packages
25  -- 9
26  SELECT first_name || ' ' || last_name AS "FULL_NAME" ,
27  main_phone_num || ' , ' || secondary_phone_num AS "CONTACT_DI
28  FROM customers
29  -- 10
30  SELECT DISTINCT city FROM customers
31  -- 11
32  SELECT DISTINCT state FROM customers
33  -- 12
34  SELECT DISTINCT state, city FROM customers
35  -- 13
36  SELECT last_name || ' ' || state AS "CUSTOMER_AND_STATE"
37  FROM customers
38  -- 14
```

```
39 SELECT first_name AS "FN" ,last_name AS "LN" ,  
40 monthly_discount AS "DC" ,city || ' ' || street AS "FULL_ADDI  
41 FROM customers  
42 -- 15  
43 SELECT DISTINCT monthly_discount FROM customers  
44 -- 16  
45 SELECT DISTINCT pack_id FROM customers
```

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