



Practice SQL Nested Queries

This page provides exercises and solutions to help you practice SQL nested 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](#).

Exercises

1. Display the first name, last name, city and state for all customers who live in the same state as customer number 170 (*Customers* table).
2. Display the package number, internet speed and sector number for all packages whose sector number equals to the sector number of package number 10 (*Packages* table).
3. Display the first name, last name and join date for all customers who joined the company after customer number 540 (*Customers* table).
4. Display the first name, last name and join date for all customers who joined the company on the same month and on the same year as customer number 372 (*Customers* table).
5. Display the first name, last name, city, state and package number for all customers whose internet speed is "5Mbps" (*Customers* and *Packages* table).
6. Display the package number, internet speed and strt_date (the date it became available) for all packages who became available on the same year as package number 7 (*Packages* table).
7. Display the first name, monthly discount, package number, main phone number and secondary phone number for all customers whose sector name is Business (*Customers*, *Packages* and *Sectors* tables).
8. Display the first name, monthly discount and package number for all customers whose monthly payment is greater than the average monthly payment (*Customers* and *Packages* table).

9. Display the first name, city, state, birthdate and monthly discount for all customers who was born on the same date as customer number 179, and whose monthly discount is greater than the monthly discount of customer number 107 (*Customers* table)
10. Display all the data from Packages table for packages whose internet speed equals to the internet speed of package number 30, and whose monthly payment is greater than the monthly payment of package number 7 (*Packages* table).
11. Display the package number, internet speed, and monthly payment for all packages whose monthly payment is greater than the maximum monthly payment of packages with internet speed equals to "5Mbps" (*Packages* table).
12. Display the package number, internet speed and monthly payment for all packages whose monthly payment is greater than the minimum monthly payment of packages with internet speed equals to "5Mbps" (*Packages* table).
13. Display the package number, internet speed and monthly payment for all packages whose monthly payment is lower than the minimum monthly payment of packages with internet speed equals to "5Mbps" (*Packages* table).
14. Display the first name, monthly discount and package number for all customers whose monthly discount is lower than the average monthly discount, and whose package number is the same as customer named "Kevin"

Solutions

These solutions apply to SQL Server and Oracle.

```
01  -- 1
02  SELECT first_name , last_name , state, city
03  FROM customers
04  WHERE state = (SELECT state FROM customers WHERE customer_id
05
06  -- 2
07  SELECT pack_id, speed , sector_id
08  FROM packages
```

```
09 WHERE sector_id = (SELECT sector_id FROM packages WHERE pack.
10
11 -- 3
12 SELECT first_name , last_name , join_date
13 FROM customers
14 WHERE join_date > (SELECT join_date FROM customers WHERE cus-
15
16 -- 4
17 SELECT first_name , last_name , join_date
18 FROM customers
19 WHERE year(join_date) = (SELECT year(join_date) FROM customer
20 AND
21 month(join_date) = (SELECT month(join_date) FROM customers WI
22
23 -- 5
24 SELECT first_name , last_name , city , state, pack_id
25 FROM customers
26 WHERE pack_id IN (SELECT pack_id FROM packages WHERE speed =
27
28 -- 6
29 SELECT pack_id , speed , strt_date
30 FROM packages
31 WHERE year(strt_date) = (SELECT year(strt_date) FROM package:
32
33 -- 7
34 SELECT first_name , monthly_discount , pack_id , main_phone_n
35 secondary_phone_num
36 FROM customers
37 WHERE pack_id IN
38     (SELECT pack_id
39      FROM packages
40      WHERE sector_id IN
41          ( SELECT sector_id
42            FROM sectors
43            WHERE sector_name = 'Business'))
44
45 -- 8
46 SELECT first_name , monthly_discount, pack_id
47 FROM customers
```

```
48 WHERE pack_id IN
49     (SELECT pack_id
50      FROM packages
51      WHERE monthly_payment >
52           (SELECT AVG(monthly_payment)
53            FROM packages))
54
55 -- 9
56 SELECT customer_id , first_name , city , state ,birth_date ,
57 FROM customers
58 WHERE birth_date =
59     (SELECT birth_date FROM customers WHERE customer_id = 1)
60 AND
61     monthly_discount >
62     (SELECT monthly_discount FROM customers WHERE customer_id = 1)
63
64 -- 10
65 SELECT *
66 FROM packages
67 WHERE speed =
68     (SELECT speed FROM packages WHERE pack_id = 30)
69 AND
70     monthly_payment >
71     (SELECT monthly_payment FROM packages WHERE pack_id = 30)
72
73 -- 11
74 SELECT pack_id ,speed , monthly_payment
75 FROM packages
76 WHERE monthly_payment
77     > ALL(SELECT monthly_payment FROM packages WHERE speed < 30)
78
79 -- 12
80 SELECT pack_id ,speed , monthly_payment
81 FROM packages
82 WHERE monthly_payment >
83     ANY (SELECT monthly_payment FROM packages WHERE speed < 30)
84
85 -- 13
86 SELECT pack_id ,speed , monthly_payment
```

```
87 FROM packages
88 WHERE monthly_payment
89         < ANY (SELECT monthly_payment FROM packages WHERE s
90
91 -- 14
92 SELECT first_name ,monthly_discount , pack_id
93 FROM customers
94 WHERE monthly_discount <
95         (SELECT AVG(monthly_discount) FROM customers)
96 AND
97         pack_id IN
98         (SELECT pack_id FROM customers WHERE first_name
```

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