



# Practice SQL WHERE Conditions

This page provides exercises and solutions to help you practice SQL WHERE conditions. 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, and package number for all customers whose last name is "King" (*Customers* table).
2. Display all the data from *Packages* table for packages whose speed is "5Mbps".
3. Display the first name, last name, package number and monthly discount for all customers with monthly discount less than 30 (*Customers* table).
4. Display all the data from *Customers* table for all customers who joined the company before January 1st, 2007.
5. Display the customer number, first name ,state, city and package number for all customers whose package number equals 21, 28, or 14 (*Customers* table).
6. Display the customer number, first name ,state, city and package number for all customers whose package number is not equal to 27, 10, or 3 (*Customers* table).
7. Display the last name, main phone number, monthly discount and package number for all customers whose customer number equals 703, 314 or 560 (*Customers* table).
8. Display the first name and monthly discount for all customers whose first name ends with an *e* (*Customers* table).
9. Display the last name and package number for all customers where the second letter of their last name is *d* (*Customers* table).

10. Display all the data from Customers table for all customers who have the letters: *i*, *j* or *h* in their last name. Order the query in descending order by monthly discount (*Customers* table).
11. Display the first name, join date, monthly discount and package number for all customers who don't have the letter *a* in their last name. Order the query in ascending order by package number (*Customers* table).
12. Display all data from *Customers* table for all customers without a package (package number is null)
13. Display the first name concatenated with the last name (separated by space), and monthly discount for all customers whose monthly discount is not in the range between 20 and 30. Order the query in ascending order by the full name (*Customers* table).
14. Display the first name concatenated with the last name (separated by space), the main phone number concatenated with street (separated by space), and monthly discount for all customers whose monthly discount is in the range between 11 and 27. Name the column headings FULL\_NAME, CONTACTS, and DC respectively (*Customers* table).
15. Display all data from *Customers* table for :
  1. All customers who live in New York **and** whose monthly discount is in the range between 30 and 40 **or**
  2. All customers whose package number is not 8,19, or 30 **and** whose join date is before January 1st, 2007
16. Display the last name, package number, and birthdate for all customers whose join date is in the range between *December 12th, 2007* and *April 17th, 2010* (*Customers* table).
17. Display the package number, start date, and speed for all packages whose start date is before January 1st, 2007 (*Packages* table)
18. Display the package number, speed, and sector number for all packages whose sector number equals 1 (*Packages* table).
19. Display the package number, speed and sector number for all packages with internet speed of "5Mbps" or "10Mbps" (*Packages* table).
20. Display the last name and monthly discount for all customers live in

Orlando (Customers table).

21. Display the last name and package number for all customers whose package number equals 9 or 18. Perform the exercise once using IN operator, once using OR (*Customers* table).
22. Display the first name, main phone number and secondary phone number for all customers without a secondary phone number (secondary phone number is null).
23. Display the first name, monthly discount and package id for all customers without any monthly discount (monthly discount is null).

### Solutions – SQL Server

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

```
001  -- 1
002  SELECT first_name , last_name , pack_id
003  FROM    customers
004  WHERE last_name = 'king'
005
006  -- 2
007  SELECT *
008  FROM    packages
009  WHERE speed = '5Mbps'
010
011  -- 3
012  SELECT first_name , last_name , pack_id , monthly_discount
013  FROM customers
014  WHERE monthly_discount < 30
015
016  -- 4
017  SELECT *
018  FROM customers
019  WHERE join_date < '2007-01-01'
020
021  -- 5
022  SELECT customer_id , first_name , state , city , pack_id
023  FROM customers
024  WHERE pack_id IN (7, 14 , 21, 28)
```

```
025
026 -- 6
027 SELECT customer_id , first_name , state , city , pack_id
028 FROM customers
029 WHERE pack_id NOT IN (27, 10 , 3)
030
031 -- 7
032 SELECT last_name , main_phone_num , monthly_discount , pack.
033 FROM customers
034 WHERE customer_id IN (314,560,703)
035
036 -- 8
037 SELECT first_name , monthly_discount
038 FROM customers
039 WHERE first_name LIKE '%E'
040
041 -- 9
042 SELECT last_name , pack_id
043 FROM customers
044 WHERE last_name LIKE '_D%'
045
046 -- 10
047 SELECT *
048 FROM customers
049 WHERE last_name LIKE '%L%' OR last_name LIKE '%J%' OR last_n
050 ORDER BY monthly_discount DESC
051
052 -- 11
053 SELECT first_name , join_date, pack_id
054 FROM customers
055 WHERE first_name NOT LIKE '%A%'
056 ORDER BY pack_id
057
058 -- 12
059 SELECT *
060 FROM customers
061 WHERE pack_id IS NULL
062
063 -- 13
```

```
064 SELECT first_name + ' ' + last_name AS 'FULL_NAME' ,
065         monthly_discount
066 FROM customers
067 WHERE monthly_discount NOT BETWEEN 20 AND 30
068 ORDER BY first_name + ' ' + last_name
069
070 -- 14
071 SELECT first_name + ' ' + last_name AS 'FULL_NAME' ,
072         main_phone_num + ' - ' + street AS 'CONTACTS'
073         monthly_discount AS 'DC'
074 FROM     customers
075 WHERE monthly_discount BETWEEN 11 AND 27
076
077 -- 15
078 SELECT *
079 FROM customers
080 WHERE monthly_discount BETWEEN 30 AND 40 AND state = 'New York'
081 OR
082         pack_id NOT IN (30, 19, 8) AND join_date < '2010-04-17'
083 ORDER BY pack_id, monthly_discount
084
085 -- 16
086 SELECT last_name , pack_id , birth_date
087 FROM customers
088 WHERE join_date BETWEEN '2007-12-12' AND '2010-04-17'
089 ORDER BY birth_date
090
091 -- 17
092 SELECT pack_id , strt_date , speed
093 FROM packages
094 WHERE strt_date < '2007-01-01'
095
096 -- 18
097 SELECT pack_id , speed , sector_id
098 FROM packages
099 WHERE sector_id = 1
100
101 -- 19
102 SELECT pack_id , speed , sector_id
```

```
103 FROM packages
104 WHERE speed IN ('5Mbps' , '10Mbps')
105
106 -- 20
107 SELECT last_name , monthly_discount
108 FROM customers
109 WHERE city = 'Orlando'
110
111 -- 21
112 SELECT last_name , pack_id
113 FROM customers
114 WHERE pack_id IN (9 , 18)
115
116 SELECT last_name , pack_id
117 FROM customers
118 WHERE pack_id = 9
119 OR
120     pack_id = 18
121
122 -- 22
123 SELECT first_name , main_phone_num , secondary_phone_num
124 FROM customers
125 WHERE secondary_phone_num IS NULL
126
127 -- 23
128 SELECT first_name , monthly_discount, pack_id
129 FROM customers
130 WHERE monthly_discount IS NULL
```

## Solutions – Oracle

```
001 -- 1
002 SELECT first_name , last_name , pack_id
003 FROM     customers
004 WHERE last_name = 'king'
005
006 -- 2
007 SELECT *
008 FROM     packages
```

```
009 WHERE speed = '5Mbps'
010
011 -- 3
012 SELECT first_name , last_name , pack_id , monthly_discount
013 FROM customers
014 WHERE monthly_discount < 30
015
016 -- 4
017 SELECT *
018 FROM customers
019 WHERE join_date < '01-JAN-2007'
020
021 -- 5
022 SELECT customer_id , first_name , state , city , pack_id
023 FROM customers
024 WHERE pack_id IN (7, 14 , 21, 28)
025
026 -- 6
027 SELECT customer_id , first_name , state , city , pack_id
028 FROM customers
029 WHERE pack_id NOT IN (27, 10 , 3)
030
031 -- 7
032 SELECT last_name , main_phone_num , monthly_discount , pack.
033 FROM customers
034 WHERE customer_id IN (314,560,703)
035
036 -- 8
037 SELECT first_name , monthly_discount
038 FROM customers
039 WHERE first_name LIKE '%E'
040
041 -- 9
042 SELECT last_name , pack_id
043 FROM customers
044 WHERE last_name LIKE '_D%'
045
046 -- 10
047 SELECT *
```

```
048 FROM customers
049 WHERE last_name LIKE '%L%' OR last_name LIKE '%J%' OR last_n
050 ORDER BY monthly_discount DESC
051
052 -- 11
053 SELECT first_name , join_date, pack_id
054 FROM customers
055 WHERE first_name NOT LIKE '%A%'
056 ORDER BY pack_id
057
058 -- 12
059 SELECT *
060 FROM customers
061 WHERE pack_id IS NULL
062
063 -- 13
064 SELECT first_name || ' ' || last_name AS "FULL_NAME" ,
065         monthly_discount
066 FROM customers
067 WHERE monthly_discount NOT BETWEEN 20 AND 30
068 ORDER BY first_name || ' ' || last_name
069
070 -- 14
071 SELECT first_name || ' ' || last_name AS "FULL_NAME",
072         main_phone_num || ' - ' || street AS "CONTACT",
073         monthly_discount AS "DC"
074 FROM customers
075 WHERE monthly_discount BETWEEN 11 AND 27
076
077 -- 15
078 SELECT *
079 FROM customers
080 WHERE monthly_discount BETWEEN 30 AND 40 AND state = 'New York'
081 OR
082         pack_id NOT IN (30, 19, 8) AND join_date < '01-01-2010'
083 ORDER BY pack_id, monthly_discount
084
085 -- 16
086 SELECT last_name , pack_id , birth_date
```



```
087 FROM customers
088 WHERE join_date BETWEEN '12-DEC-2007' AND '17-APR-2010'
089 ORDER BY birth_date
090
091 -- 17
092 SELECT pack_id , strt_date , speed
093 FROM packages
094 WHERE strt_date < '01-JAN-2007'
095
096 -- 18
097 SELECT pack_id , speed , sector_id
098 FROM packages
099 WHERE sector_id = 1
100
101 -- 19
102 SELECT pack_id , speed , sector_id
103 FROM packages
104 WHERE speed IN ('5Mbps' , '10Mbps')
105
106 -- 20
107 SELECT last_name , monthly_discount
108 FROM customers
109 WHERE city = 'Orlando'
110
111 -- 21
112 SELECT last_name , pack_id
113 FROM customers
114 WHERE pack_id IN (9 , 18)
115
116 SELECT last_name , pack_id
117 FROM customers
118 WHERE pack_id = 9
119 OR
120     pack_id = 18
121
122 -- 22
123 SELECT first_name , main_phone_num , secondary_phone_num
124 FROM customers
125 WHERE secondary_phone_num IS NULL
```


```
126  
127 -- 23  
128 SELECT first_name , monthly_discount, pack_id  
129 FROM customers  
130 WHERE monthly_discount IS NULL
```

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