# **SQL WHERE Conditions**

**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:  *l, 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. Preform 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).

ANSWERS

1) SELECT FIRST\_NAME,LAST\_NAME,PACK\_ID FROM CUSTOMERS WHERE LAST\_NAME LIKE 'King'

2) SELECT \* FROM PACKAGES WHERE SPEED LIKE '5Mbps'

3) SELECT FIRST\_NAME,LAST\_NAME,PACK\_ID,MONTHLY\_DISCOUNT FROM CUSTOMERS WHERE MONTHLY\_DISCOUNT<30

4) SELECT \* FROM CUSTOMERS WHERE JOIN\_DATE<'01-JAN-07'

5) SELECT CUSTOMER\_ID,FIRST\_NAME,STATE,CITY,PACK\_ID FROM CUSTOMERS WHERE PACK\_ID IN(21,28,14)

6) SELECT CUSTOMER\_ID,FIRST\_NAME,STATE,CITY,PACK\_ID FROM CUSTOMERS WHERE PACK\_ID NOT IN(27,10,3)

7) SELECT LAST\_NAME,MAIN\_PHONE\_NUM,MONTHLY\_DISCOUNT,PACK\_ID FROM CUSTOMERS WHERE CUSTOMER\_ID IN(703,314,560)

8) SELECT FIRST\_NAME,MONTHLY\_DISCOUNT FROM CUSTOMERS WHERE FIRST\_NAME LIKE '%e'

9) SELECT LAST\_NAME,PACK\_ID FROM CUSTOMERS WHERE LAST\_NAME LIKE '\_d%'

10) SELECT \* FROM CUSTOMERS WHERE LAST\_NAME LIKE '%l%' OR LAST\_NAME LIKE '%j%' OR LAST\_NAME LIKE '%h%' ORDER BY MONTHLY\_DISCOUNT DESC

11) SELECT FIRST\_NAME,JOIN\_DATE,MONTHLY\_DISCOUNT,PACK\_ID FROM CUSTOMERS WHERE LAST\_NAME NOT LIKE '%a%' ORDER BY PACK\_ID

12) SELECT \* FROM CUSTOMERS WHERE PACK\_ID IS NULL

13) SELECT FIRST\_NAME||' '||LAST\_NAME AS FULL\_NAME,MONTHLY\_DISCOUNT FROM CUSTOMERS WHERE MONTHLY\_DISCOUNT NOT BETWEEN 20 AND 30 ORDER BY FULL\_NAME

14) SELECT FIRST\_NAME||' '||LAST\_NAME AS FULL\_NAME,MAIN\_PHONE\_NUM||' '||STREET AS CONTACTS,MONTHLY\_DISCOUNT AS DC FROM CUSTOMERS WHERE MONTHLY\_DISCOUNT BETWEEN 11 AND 27

15) SELECT \* FROM CUSTOMERS WHERE (CITY='New York' AND MONTHLY\_DISCOUNT BETWEEN 30 AND 40) OR (PACK\_ID NOT IN(8,19,30) AND JOIN\_DATE < '01-JAN-07')

16) SELECT LAST\_NAME,PACK\_ID,BIRTH\_DATE FROM CUSTOMERS WHERE JOIN\_DATE BETWEEN '12-DEC-07' AND '17-APR-10'

17) SELECT PACK\_ID,STRT\_DATE,SPEED FROM PACKAGES WHERE STRT\_DATE < '01-JAN-07'

18) SELECT PACK\_ID,SPEED,SECTOR\_ID FROM PACKAGES WHERE SECTOR\_ID=1

19) SELECT PACK\_ID,SPEED,SECTOR\_ID FROM PACKAGES WHERE SPEED='5Mbps' OR SPEED='10Mbps'

20) SELECT LAST\_NAME,MONTHLY\_DISCOUNT FROM CUSTOMERS WHERE CITY='Orlando'

21) SELECT LAST\_NAME,PACK\_ID FROM CUSTOMERS WHERE PACK\_ID=9 OR PACK\_ID=18

SELECT LAST\_NAME,PACK\_ID FROM CUSTOMERS WHERE PACK\_ID IN(9,18)

22) SELECT FIRST\_NAME,MAIN\_PHONE\_NUM,SECONDARY\_PHONE\_NUM FROM CUSTOMERS WHERE SECONDARY\_PHONE\_NUM IS NULL

23) SELECT FIRST\_NAME,MONTHLY\_DISCOUNT,PACK\_ID FROM CUSTOMERS WHERE MONTHLY\_DISCOUNT IS NULL