# **SQL WHERE Conditions**

**Exercises**

1. Display the first name, last name, and package number for all customers whose last name is “King” (*Customers* table).

SELECT FIRST\_NAME, LAST\_NAME, PACK\_ID

FROM CUSTOMERS

WHERE LAST\_NAME = 'King';

1. Display all the data from *Packages* table for packages whose speed is “5Mbps”.

SELECT \*

FROM PACKAGES

WHERE SPEED = '5Mbps';

1. Display the first name, last name, package number and monthly discount for all customers with monthly discount less than 30 (*Customers* table).

SELECT FIRST\_NAME, LAST\_NAME, PACK\_ID, MONTHLY\_DISCOUNT

FROM CUSTOMERS

WHERE MONTHLY\_DISCOUNT < 30;

1. Display all the data from *Customers* table for all customers who joined the company before January 1st, 2007.

SELECT \*

FROM CUSTOMERS

WHERE JOIN\_DATE < '01-Jan-2007';

1. Display the customer number, first name ,state, city and package number for all customers whose package number equals 21, 28,7, or 14 (*Customers* table).

SELECT CUSTOMER\_ID, FIRST\_NAME, STATE, CITY, PACK\_ID

FROM CUSTOMERS

WHERE PACK\_ID IN(21,14,28,7);

1. 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).

SELECT CUSTOMER\_ID, FIRST\_NAME, STATE, CITY, PACK\_ID

FROM CUSTOMERS

WHERE PACK\_ID NOT IN(27,10,3);

1. 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).

SELECT LAST\_NAME, MAIN\_PHONE\_NUM , MONTHLY\_DISCOUNT, PACK\_ID

FROM CUSTOMERS

WHERE CUSTOMER\_ID IN(703,314,560);

1. Display the first name and monthly discount for all customers whose first name ends with an *e* (*Customers* table).

SELECT FIRST\_NAME, MONTHLY\_DISCOUNT

FROM CUSTOMERS

WHERE FIRST\_NAME LIKE '%e';

1. Display the last name and package number for all customers where the second letter of their last name is *d* (*Customers* table).

SELECT LAST\_NAME, PACK\_ID

FROM CUSTOMERS

WHERE LAST\_NAME LIKE '\_d%';

1. 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).

SELECT \*

FROM CUSTOMERS

WHERE REGEXP\_LIKE (LAST\_NAME,'+[ljh]+')

ORDER BY MONTHLY\_DISCOUNT DESC;

1. 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).

SELECT FIRST\_NAME, JOIN\_DATE, MONTHLY\_DISCOUNT, PACK\_ID

FROM CUSTOMERS

WHERE LAST\_NAME NOT LIKE '%a%';

1. Display all data from *Customers* table for all customers without a package (package number is null)

SELECT \*

FROM CUSTOMERS

WHERE PACK\_ID IS null;

1. 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).

SELECT FIRST\_NAME||' '||LAST\_NAME AS FULL\_NAME, MONTHLY\_DISCOUNT

FROM CUSTOMERS

WHERE MONTHLY\_DISCOUNT NOT BETWEEN 20 AND 30

ORDER BY FULL\_NAME;

1. 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).

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;

1. 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

SELECT \*

FROM CUSTOMERS

WHERE (STATE = 'New York' AND MONTHLY\_DISCOUNT BETWEEN 30 AND 40) OR

(PACK\_ID NOT IN(8,19,30) AND JOIN\_DATE < '01-Jan-2007');

1. 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).

SELECT LAST\_NAME, PACK\_ID, BIRTH\_DATE

FROM CUSTOMERS

WHERE JOIN\_DATE BETWEEN '12-Dec-2007' AND '17-Apr-2010';

1. Display the package number, start date, and speed for all packages whose start date is before January 1st, 2007 (*Packages* table)

SELECT PACK\_ID, STRT\_DATE, SPEED

FROM PACKAGES

WHERE STRT\_DATE < '01-Jan-2007';

1. Display the package number, speed, and sector number for all packages whose sector number equals 1 (*Packages* table).

SELECT PACK\_ID, SPEED, SECTOR\_ID

FROM PACKAGES

WHERE SECTOR\_ID = 1;

1. Display the package number, speed and sector number for all packages with internet speed of “5Mbps” or “10Mbps” (*Packages* table).

SELECT PACK\_ID, SPEED, SECTOR\_ID

FROM PACKAGES

WHERE SPEED IN ('5Mbps','10Mbps');

1. Display the last name and monthly discount for all customers live in Orlando (Customers table).

SELECT LAST\_NAME, MONTHLY\_DISCOUNT

FROM CUSTOMERS

WHERE UPPER(CITY) = 'ORLANDO';

1. 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).

SELECT LAST\_NAME, PACK\_ID

FROM CUSTOMERS

WHERE PACK\_ID IN(9,18);

SELECT LAST\_NAME, PACK\_ID

FROM CUSTOMERS

WHERE PACK\_ID = 9 OR PACK\_ID = 18;

1. Display the first name, main phone number and secondary phone number for all customers without a secondary phone number (secondary phone number is null).

SELECT FIRST\_NAME, MAIN\_PHONE\_NUM, SECONDARY\_PHONE\_NUM

FROM CUSTOMERS

WHERE SECONDARY\_PHONE\_NUM IS NULL;

1. Display the first name, monthly discount and package id for all customers without any monthly discount (monthly discount is null).

SELECT FIRST\_NAME, MONTHLY\_DISCOUNT, PACK\_ID

FROM CUSTOMERS

WHERE MONTHLY\_DISCOUNT IS NULL;

**Simple SQL SELECT Queries – Practice**

1. Create a query to display all the data from the *Customers* table.

**SELECT \* FROM CUSTOMERS;**

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

|  |  |
| --- | --- |
| 1  2 | FROM Customers  SELECT last\_name , first\_name |

1. Create a query to display the internet package number, internet speed and monthly payment (*Packages* table).

**SELECT PACK\_ID, SPEED, MONTHLY\_PAYMENT**

**FROM PACKAGES;**

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

|  |  |
| --- | --- |
| 1  2 | SELECT strt\_date, monthly\_payment  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).

**SELECT CUSTOMER\_ID, FIRST\_NAME, LAST\_NAME, MAIN\_PHONE\_NUM , SECONDARY\_PHONE\_NUM , PACK\_ID**

**FROM CUSTOMERS;**

1. 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).

**SELECT FIRST\_NAME, LAST\_NAME, JOIN\_DATE, MONTHLY\_DISCOUNT\*1.2, MONTHLY\_DISCOUNT\*0.8**

**FROM CUSTOMERS;**

1. 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).

**SELECT PACK\_ID, SPEED, STRT\_DATE , MONTHLY\_PAYMENT, MONTHLY\_PAYMENT\*12 AS YearlyPayment**

**FROM PACKAGES;**

1. 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)

**SELECT LAST\_NAME || ' ' || FIRST\_NAME AS FULL\_NAME,**

**MAIN\_PHONE\_NUM|| ', ' ||SECONDARY\_PHONE\_NUM AS CONTACT\_DETAILS**

**FROM CUSTOMERS;**

1. Create a query to display unique cities from the *Customers* table.

**SELECT DISTINCT CITY**

**FROM CUSTOMERS;**

1. Create a query to display unique states from the *Customers* table.

**SELECT DISTINCT STATE**

**FROM CUSTOMERS;**

1. Create a query to display unique combination of cities and states from *Customers* table.

**SELECT DISTINCT CITY, STATE**

**FROM CUSTOMERS;**

1. Create a query to display the last name concatenated with the state, separated by space. Name this column CUSTOMER\_AND\_STATE (*Customers* table)

**SELECT LAST\_NAME||' '||STATE AS CUSTOMER\_AND\_STATE**

**FROM CUSTOMERS;**

1. 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).

**SELECT FIRST\_NAME FN , LAST\_NAME LN, MONTHLY\_DISCOUNT DC,**

**CITY||' '||STREET FULL\_ADDRESS**

**FROM CUSTOMERS;**

1. Create a query to display unique monthly discounts in *Customers* table.

**SELECT DISTINCT MONTHLY\_DISCOUNT**

**FROM CUSTOMERS;**

1. Create a query to display unique packages (package\_id) in *Customers* table.

**SELECT DISTINCT PACK\_ID**

**FROM PACKAGES;**