

## Assignment-20

### Where Clause

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1. From the following table, write a SQL query to find the details of the customers who have a grade value above 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

*Sample table: customer*

customer_id	salesman_id	cust_name	city	grade
5001	3002	Nick Rimando	New York	100
5001	3007	Brad Davis	New York	200
5002	3005	Graham Zusi	California	200
5002	3008	Julian Green	London	300
5006	3004	Fabian Johnson	Paris	300
5003	3009	Geoff Cameron	Berlin	100
5007	3003	Jozy Altidor	Moscow	200
5005	3001	Brad Guzan	London	

```

173
174 • create database SalesCust;
175 • use SalesCust;
176
177 • create table Customer
178 (
179     customer_id int,
180     cust_name varchar(20),
181     city varchar(15),
182     grade int,
183     salesman_id int
184 )
185 ;
186 • desc customer;
187 • Select * from customer;
188
189 • insert into customer values(3002,'Nick Rimando','New York',100,5001);
190 • insert into customer values(3007,'Brad Davis','New York',200,5001);
191 • insert into customer values(3005,'Graham Zusi','California ',200,5002);
192 • insert into customer values(3008,'Julian Green','London ',300,5002);
193 • insert into customer values(3004,'Fabian Johnson','Paris',300,5006);
194 • insert into customer values(3009,'Geoff Cameron','Berlin',100,5003);
195 • insert into customer values(3003,'Jozy Altidor','Moscow',200,5007);
196 • insert into customer values(3001,'Brad Guzan','London',0,5005);

```

```

mysql> use salescust;
Database changed
mysql> show tables;
+-----+
| Tables_in_salescust |
+-----+
| customer             |
+-----+
1 row in set (0.12 sec)

mysql> desc customer;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| customer_id | int           | YES  |     | NULL    |       |
| cust_name   | varchar(20)   | YES  |     | NULL    |       |
| city        | varchar(15)   | YES  |     | NULL    |       |
| grade       | int           | YES  |     | NULL    |       |
| salesman_id | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```
mysql> select * from customer;
```

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London	0	5005

```
8 rows in set (0.00 sec)
```

**Query:**

**ANS:**

```
mysql> select * from customer where grade>100;
```

customer_id	cust_name	city	grade	salesman_id
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3003	Jozy Altidor	Moscow	200	5007

```
5 rows in set (0.00 sec)
```

2. From the following table, write a SQL query to find all the customers in 'New York' city who have a grade value above 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

*Sample table:* customer

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006

5003	3009	Geoff Cameron	Berlin	100	
5007	3003	Jozy Altidor	Moscow	200	
5005	3001	Brad Guzan	London		

### Query:

```
mysql> select * from customer where city=
-> 'New York'
-> AND
-> grade>100;
```

customer_id	cust_name	city	grade	salesman_id
3007	Brad Davis	New York	200	5001

1 row in set (0.00 sec)

3. From the following table, write a SQL query to find the customers who belong to either the city 'New York' or have a grade above 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

*Sample table: customer*

customer_id	cust_name	city	grade	salesman_id
5001	3002	Nick Rimando	New York	100
5001	3007	Brad Davis	New York	200
5002	3005	Graham Zusi	California	200
5002	3008	Julian Green	London	300
5006	3004	Fabian Johnson	Paris	300
5003	3009	Geoff Cameron	Berlin	100
5007	3003	Jozy Altidor	Moscow	200
5005	3001	Brad Guzan	London	

### Query:

```
mysql> select * from customer where city='New York'
-> OR
-> grade>100;
```

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3003	Jozy Altidor	Moscow	200	5007

5 rows in set (0.00 sec)

4. From the following table, write a SQL query to find the customers who belong to either the city 'New York' or not have a grade above 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

*Sample table: customer*

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London		5005

**Query:**

```
mysql> select * from customer where city='New York'
-> OR NOT
-> grade>100;
```

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3009	Geoff Cameron	Berlin	100	5003
3001	Brad Guzan	London	0	5005

4 rows in set (0.00 sec)

5. From the following table, write a SQL query to find those customers who belong to neither the 'New York' city nor their grade value exceeds 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

*Sample table: customer*

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London		5005

**Query:**

```
mysql> select * from customer where NOT
-> (city='New York' OR grade>100);
```

customer_id	cust_name	city	grade	salesman_id
3009	Geoff Cameron	Berlin	100	5003
3001	Brad Guzan	London	0	5005

```
2 rows in set (0.00 sec)
```

6. From the following table, write a SQL query to find details of all order excluding combination of ord\_date equal to '2012-09-10' and salesman\_id higher than 5005 or purch\_amt greater than 1000. Return ord\_no, purch\_amt, ord\_date, customer\_id and salesman\_id.

*Sample table : orders*

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

```

212 • create table Orders
213 • (
214 •   ord_no int,
215 •   purch_amt double,
216 •   ord_date date,
217 •   customer_id int,
218 •   salesman_id int
219 • )
220 • ;
221 • insert into orders values(7001,150.5,'2012-10-05', 3005,5002);
222 • insert into orders values(7009,270.65,'2012-09-10', 3001,5005);
223 • insert into orders values(7002,65.26,'2012-10-05', 3002,5001);
224 • insert into orders values(7004,110.5,'2012-08-17', 3009,5003);
225 • insert into orders values(7007,948.5,'2012-09-10', 3005,5002);
226 • insert into orders values(7005,2400.6,'2012-07-27', 3075,5001);
227 • insert into orders values(7008,5760,'2012-09-10', 3002,5001);
228 • insert into orders values(7010,1983.43,'2012-10-10', 3004,5006);
229 • insert into orders values(7003,2480.4,'2012-10-10', 3009,5003);
230 • insert into orders values(7012,250.45,'2012-06-27', 3008,5002);
231 • insert into orders values(7011,75.29,'2012-08-17', 3003,5007);
232 • insert into orders values(7013,3045.6,'2012-04-25', 3002,5001);

```

```
mysql> select * from orders;
```

ord_no	purch_amt	ord_date	customer_id	salesman_id
7001	150.5	2012-10-05	3005	5002
7009	270.65	2012-09-10	3001	5005
7002	65.26	2012-10-05	3002	5001
7004	110.5	2012-08-17	3009	5003
7007	948.5	2012-09-10	3005	5002
7005	2400.6	2012-07-27	3075	5001
7008	5760	2012-09-10	3002	5001
7010	1983.43	2012-10-10	3004	5006
7003	2480.4	2012-10-10	3009	5003
7012	250.45	2012-06-27	3008	5002
7011	75.29	2012-08-17	3003	5007
7013	3045.6	2012-04-25	3002	5001

```
12 rows in set (0.00 sec)
```

**Query:**

**ANS:**



```
mysql> select * from orders
-> where not((ord_date='2012-09-10' AND salesman_id >5005)
-> OR
-> purch_amt >1000.00);
```

ord_no	purch_amt	ord_date	customer_id	salesman_id
7001	150.5	2012-10-05	3005	5002
7009	270.65	2012-09-10	3001	5005
7002	65.26	2012-10-05	3002	5001
7004	110.5	2012-08-17	3009	5003
7007	948.5	2012-09-10	3005	5002
7012	250.45	2012-06-27	3008	5002
7011	75.29	2012-08-17	3003	5007

```
7 rows in set (0.07 sec)
```

7. From the following table, write a SQL query to find the details of those salespeople whose commissions range from 0.10 to 0.12. Return salesman\_id, name, city, and commission.

*Sample table : salesman*

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

```

196
197 • create table salesman
198 (
199     salesman_id int,
200     name varchar(15),
201     city varchar(12),
202     commission float
203 )
204 ;
205 • insert into salesman values(5001,'James Hoog','New York',0.15);
206 • insert into salesman values(5002,'Nail Knite','Paris',0.13);
207 • insert into salesman values(5005,'Pit Alex','London',0.11);
208 • insert into salesman values(5006,'Mc Lyon','Paris',0.14);
209 • insert into salesman values(5003,'Lauson Hen','San Jose',0.12);
210 • insert into salesman values(5007,'Paul Adam','Rome',0.13);
211

```

```

mysql> select * from salesman;
+-----+-----+-----+-----+
| salesman_id | name       | city    | commission |
+-----+-----+-----+-----+
| 5001        | James Hoog | New York | 0.15        |
| 5002        | Nail Knite | Paris    | 0.13        |
| 5005        | Pit Alex   | London   | 0.11        |
| 5006        | Mc Lyon    | Paris    | 0.14        |
| 5003        | Lauson Hen | San Jose | 0.12        |
| 5007        | Paul Adam  | Rome     | 0.13        |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

**Query:**

**Ans:**

```

mysql> select salesman_id,name,city,commission
-> FROM salesman where
-> (commission>0.10 AND commission<0.12);
+-----+-----+-----+-----+
| salesman_id | name       | city    | commission |
+-----+-----+-----+-----+
| 5005        | Pit Alex   | London   | 0.11        |
| 5003        | Lauson Hen | San Jose | 0.12        |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

8. From the following table, write a SQL query to find details of all order where purchase amount less than 200 or excluding combination of order date greater

than or equal to '2012-02-10' and customer ID less than 3009. Return ord\_no, purch\_amt, ord\_date, customer\_id and salesman\_id.

### Query:

```
mysql> select * from orders WHERE
-> (purch_amt<200
-> OR NOT
-> (ord_date>='2012-02-10'
-> AND
-> customer_id<3009
-> )
-> )
-> ;
```

ord_no	purch_amt	ord_date	customer_id	salesman_id
7001	150.5	2012-10-05	3005	5002
7002	65.26	2012-10-05	3002	5001
7004	110.5	2012-08-17	3009	5003
7005	2400.6	2012-07-27	3075	5001
7003	2480.4	2012-10-10	3009	5003
7011	75.29	2012-08-17	3003	5007

6 rows in set (0.00 sec)

9. From the following table, write a SQL query to find all orders subject to following conditions. Exclude combination of order date equal to '2012-08-17' or customer ID higher than 3005 and purchase amount less than 1000.

*Sample table : orders*

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

### Query:

```
mysql> select * from orders where
-> NOT
-> ((ord_date='2012-08-17'
-> OR
-> customer_id>3005)
-> AND
-> purch_amt<1000);
```

ord_no	purch_amt	ord_date	customer_id	salesman_id
7001	150.5	2012-10-05	3005	5002
7009	270.65	2012-09-10	3001	5005
7002	65.26	2012-10-05	3002	5001
7007	948.5	2012-09-10	3005	5002
7005	2400.6	2012-07-27	3075	5001
7008	5760	2012-09-10	3002	5001
7010	1983.43	2012-10-10	3004	5006
7003	2480.4	2012-10-10	3009	5003
7013	3045.6	2012-04-25	3002	5001

9 rows in set (0.00 sec)

**10.** Write a SQL query to display order number, purchase amount, achieved, the unachieved percentage for those order which exceeds the 50% of the target value of 6000.

*Sample table: orders*

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

**Query:**

```

mysql> select ord_no,purch_amt,
-> (100*purch_amt)/6000 as "ACHIEVED %",
-> (100*(6000-purch_amt)/6000) AS"UN ACHIEVED %"
-> from orders
-> where(100*purch_amt)/6000>50;
+-----+-----+-----+-----+
| ord_no | purch_amt | ACHIEVED % | UN ACHIEVED % |
+-----+-----+-----+-----+
| 7008 | 5760 | 96 | 4 |
| 7013 | 3045.6 | 50.76 | 49.24 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

11. From the following table, write a SQL query to find the details of all employees whose last name is 'Dosni' or 'Mardy'. Return emp\_idno, emp\_fname, emp\_lname, and emp\_dept.

*Sample table : emp\_details*

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

```

8 • create table emp_details
9 • (
0 •     EMP_IDNO int,
1 •     EMP_FNAME varchar(15),
2 •     EMP_LNAME varchar(10),
3 •     EMP_DEPT int
4 • )
5 • ;
6 • insert into emp_details values(127323,'Michale','Robbin',57);
7 • insert into emp_details values(526689,'Carlos','Snares',63);
8 • insert into emp_details values(843795,'Enric','Dosio',57);
9 • insert into emp_details values(328717,'John','Snares',63);
0 • insert into emp_details values(44527,'Josheph','Dosni',47);
1 • insert into emp_details values(659831,'Zanifer','Emily',47);
2 • insert into emp_details values(847674,'Kuleswar','Sitaraman',57);
3 • insert into emp_details values(748681,'Henrey','Gabriel',47);
4 • insert into emp_details values(55935,'Alex','Manuel',57);
5 • insert into emp_details values(539569,'George','Mardy',27);
6 • insert into emp_details values(733843,'Mario','Saule',63);
7 • insert into emp_details values(631548,'Alan','Snappy',27);
8 • insert into emp_details values(839139,'Maria','Foster',57);
9 •

```

```
mysql> select * from emp_details;
```

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	John	Snares	63
44527	Josheph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
55935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

13 rows in set (0.00 sec)

**Query:**

```
mysql> select * from emp_details
-> where
-> emp_lname='Dosni'
-> OR
-> emp_lname='Mardy';
```

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
44527	Josheph	Dosni	47
539569	George	Mardy	27

2 rows in set (0.00 sec)

**12.** From the following table, write a SQL query to find the employees who works at depart 47 or 63. Return emp\_idno, emp\_fname, emp\_lname, and emp\_dept.

*Sample table : emp\_details*

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

**Query:**

```
mysql> select * from emp_details where
-> emp_dept=47
-> OR
-> emp_dept=63;
```

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
526689	Carlos	Snares	63
328717	John	Snares	63
44527	Josheph	Dosni	47
659831	Zanifer	Emily	47
748681	Henrey	Gabriel	47
733843	Mario	Saule	63

6 rows in set (0.00 sec)