

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 | 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 :

```
select customer_id, cust_name, city, grade, salesman_id
```

```
from customer
```

```
where grade >100;
```

(OR)

```
select *
```

```
from customer
```

```
where grade >100;
```

```
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 | NULL | 5005 |

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

```
mysql> select customer_id, cust_name, city, grade, salesman_id
-> 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 |
| 3009 | Geoff Cameron | Berlin | 100 | 5003 |
| 3003 | Jozy Altidor | Moscow | 200 | 5007 |
| 3001 | Brad Guzan | London | | 5005 |

Query:

```
select *
```

```
from customer
```

```
where city="new York" and grade>100;
```

Output :

```
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 | alesman_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 :

Select *

From customer

Where city ="New York" or grade >100;

```
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 |

6 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 :

Select *

From customer

Where city="New York" or NOT grade>100;

(OR)

Select *

From customer

Where city="New York" or grade <= 100;

```
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 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

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 |
| 3009 | Geoff Cameron | Berlin | 100 | 5003 |
+-----+-----+-----+-----+-----+
3 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:

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

Output:

```
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 |  
+-----+-----+-----+-----+-----+  
1 row 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 |

Query:

```
select *  
from orders  
where NOT ((ord_date ='2012-09-10'  
AND salesman_id>5005)  
OR purch_amt>1000);
```

Output :

```
mysql> select *  
-> from orders  
-> where NOT ((ord_date ='2012-09-10'  
-> AND salesman_id>5005)  
-> OR purch_amt>1000);  
+-----+-----+-----+-----+-----+  
| 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 |  
| 70012 | 250.45 | 2012-06-27 | 3008 | 5002 |  
| 70011 | 75.29 | 2012-08-17 | 3003 | 5007 |  
+-----+-----+-----+-----+-----+  
7 rows in set (0.00 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 |

Query

Select *

From salesman

Where commission between 0.10 and 0.12;

Output :

```
mysql> Select *
-> From salesman
-> Where commission between 0.10 and 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.

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 :

Select *

From orders

Where (purch_amt<200 OR

NOT (ord_date>='2010-02-10'

AND customer_id<3009));

Output :

```
mysql> Select *
-> From orders
-> Where (purch_amt<200 OR
-> NOT (ord_date>='2010-02-10'
-> AND customer_id<3009));
```

| ord_no | purch_amt | ord_date | customer_id | salesman_id |
|--------|-----------|------------|-------------|-------------|
| 70001 | 150.5 | 2012-10-05 | 3005 | 5002 |
| 70002 | 65.26 | 2012-10-05 | 3002 | 5001 |
| 70004 | 110.5 | 2012-08-17 | 3009 | 5003 |
| 70003 | 2480.4 | 2012-10-10 | 3009 | 5003 |
| 70011 | 75.29 | 2012-08-17 | 3003 | 5007 |

```
5 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 :

Select *

From orders

Where NOT ((ord_date='2012-08-17'

OR customer_id>3005)

AND purch_amt<1000);

Output :

```
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 |
+-----+-----+-----+-----+-----+
| 70001 | 150.5 | 2012-10-05 | 3005 | 5002 |
| 70009 | 270.65 | 2012-09-10 | 3001 | 5005 |
| 70002 | 65.26 | 2012-10-05 | 3002 | 5001 |
| 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 |
| 70013 | 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 :

Select ord_no , purch_amt,

(100*purch_amt)/6000) AS "Achived Percentage",

(100*(6000-purch_amt)/6000) AS "Unachived Percentage"

From orders

Where (100*purch_amt)/6000>50;

Output :

```
mysql> Select ord_no,purch_amt,
-> (100*purch_amt)/6000 AS "Achieved Percentage",
-> (100*(6000-purch_amt)/6000) AS "Unachieved Percentage"
-> From orders
-> Where (100*purch_amt)/6000>50;
```

| ord_no | purch_amt | Achieved Percentage | Unachieved Percentage |
|--------|-----------|---------------------|-----------------------|
| 70008 | 5760 | 96 | 4 |
| 70013 | 3045.6 | 50.76000162760417 | 49.23999837239583 |

```
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 |

Query:

Select *

From emp_details

Where emp_lname in ('Dosni' , 'Mardy');

(OR)

Select *

From emp_details

Where emp_lname = 'Dosni' OR emp_lname= 'Mardy';

Output :

```
mysql> Select *
-> From emp_details
-> Where emp_lname in ('Dosni' , 'Mardy');
+-----+-----+-----+-----+
| EMP_IDNO | EMP_FNAME | EMP_LNAME | EMP_DEPT |
+-----+-----+-----+-----+
| 444527 | Joseph | Dosni | 47 |
| 539569 | George | Mardy | 27 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> Select *
-> From emp_details
-> Where emp_lname = 'Dosni' OR emp_lname= 'Mardy';
+-----+-----+-----+-----+
| EMP_IDNO | EMP_FNAME | EMP_LNAME | EMP_DEPT |
+-----+-----+-----+-----+
| 444527 | Joseph | 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 :

Select *

From emp_details

Where emp_dept in (47,63);

Output :

```
mysql> Select *
-> From emp_details
-> Where emp_dept in (47,63);
+-----+-----+-----+-----+
| EMP_IDNO | EMP_FNAME | EMP_LNAME | EMP_DEPT |
+-----+-----+-----+-----+
| 526689 | Carlos | Snares | 63 |
| 328717 | Jhon | Snares | 63 |
| 444527 | Joseph | Dosni | 47 |
| 659831 | Zanifer | Emily | 47 |
| 748681 | Henrey | Gabriel | 47 |
| 733843 | Mario | Saule | 63 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```