1. From the following table, write a SQL query to find the details of the customers who have a gradevalue above 100. Return customer_id, cust_name, city, grade, and salesman_id.

Sample table: customer

custId	custName	city	gradeValue	salesmanId
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 gradeValue>100;

```
mysql> select * from customer where gradeValue>100;
+--------+---------------+-----------+------------+------------+
| custId | custName      | city      | gradeValue | salesmanId |
+--------+---------------+-----------+------------+------------+
|   3007 | Brad Davis    | New York  |        200 |       5001 |
|   3005 | Graham Zusi   | California|        200 |       5002 |
|   3008 | Julian Green  | Landon    |        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 gradeValue>100 && city="New York";

```
mysql> select * from customer where gradeValue>100 && city="New York";
+--------+-----------+----------+------------+------------+
| custId | custName  | city     | gradeValue | salesmanId |
+--------+-----------+----------+------------+------------+
|   3007 | Brad Davis | New York |        200 |       5001 |
+--------+-----------+----------+------------+------------+
1 row in set, 1 warning (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
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" || gradeValue>100;

```
mysql>
mysql> select * from customer where city="New York" || gradeValue>100;
+--------+---------------+----------+------------+------------+
| custId | custName      | city     | gradeValue | salesmanId |
+--------+---------------+----------+------------+------------+
|   3002 | Nick Rimando  | New York |        100 |       5001 |
|   3007 | Brad Davis    | New York |        200 |       5001 |
|   3005 | Graham Zusi   | California |      200 |       5002 |
|   3008 | Julian Green  | Landon   |        300 |       5002 |
|   3004 | Fabian Johnson | Paris   |        300 |       5006 |
|   3003 | Jozy Altidor  | Moscow   |        200 |       5007 |
+--------+---------------+----------+------------+------------+
6 rows in set, 1 warning (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' || gradeValue<=100;

```
mysql> select * from customer where city='New York' || gradeValue<=100;
+--------+-------------+---------+-----------+-----------+
| custId | custName    | city    | gradeValue | salesmanId |
+--------+-------------+---------+-----------+-----------+
|   3002 | Nick Rimando | New York |       100 |      5001 |
|   3007 | Brad Davis   | New York |       200 |      5001 |
|   3009 | Geoff Cameron | Berlin  |       100 |      5003 |
+--------+-------------+---------+-----------+-----------+
3 rows in set, 1 warning (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(gradeValue>100 || city="New York");

```
mysql>
mysql> select * from customer where not(gradeValue>100 || city="New York");
+--------+--------------+--------+------------+------------+
| custId | custName     | city   | gradeValue | salesmanId |
+--------+--------------+--------+------------+------------+
|   3009 | Geoff Cameron | Berlin |        100 |       5003 |
+--------+--------------+--------+------------+------------+
1 row in set, 1 warning (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);

```
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 sales people 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;

```
mysql>
mysql> select * from salesman where commission between 0.10 and 0.12;
+------------+-----------+---------+------------+
| salesman_id | name      | city    | commission |
+------------+-----------+---------+------------+
|       5005 | Pit Alex  | Landon  |       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

Query – select * from orders where (purch_amt<=200 or not (ord_date>='2012-02-10' and customer_id<3009));

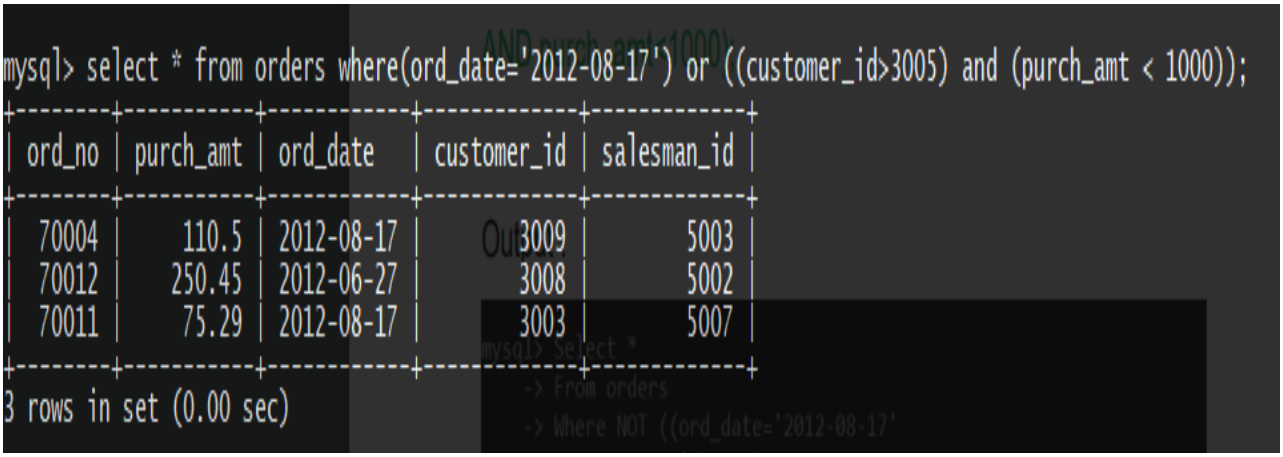
```
mysql> select * from orders where (purch_amt<=200 or not (ord_date>='2012-02-10'
    -> and customer_id<3009));
+--------+-----------+------------+-------------+-------------+
| ord_no | purch_amt | ord_date   | customer_id | salesman_id |
+--------+-----------+------------+-------------+-------------+
|  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 (ord_date='2012-08-17') or ((customer_id>3005) and (purch_amt < 1000));



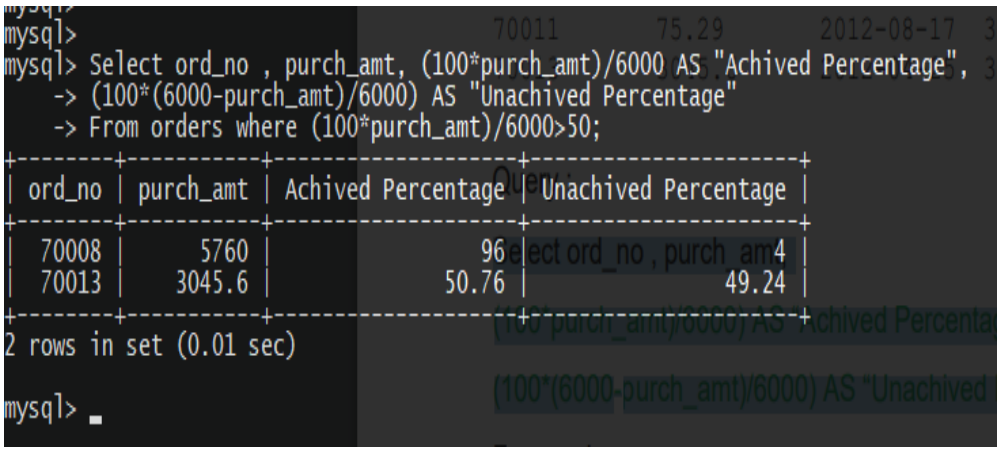
10. Write a SQL query to display order number, purchase amount, achieved, the unachieved percentage for those order which exceeds the 50% of the target value of 6000.

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;



```
mysql>
mysql> 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;
+--------+----------+--------------------+----------------------+
| ord_no | purch_amt | Achived Percentage | Unachived Percentage |
+--------+----------+--------------------+----------------------+
|  70008 |     5760 |              96    |                4     |
|  70013 |   3045.6 |           50.76    |            49.24    |
+--------+----------+--------------------+----------------------+
2 rows in set (0.01 sec)

mysql>
```

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 = 'Dosni' or emp_lname = 'Mardy';

```
mysql> select * from emp_details where emp_lname = 'Dosni' or emp_lname = 'Mardy';
+--------+----------+----------+----------+
| emp_id | 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);

```
mysql> select * from emp_details where emp_dept in(47, 63);
+--------+----------+----------+----------+
| emp_id | 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)

mysql>
```