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

```
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 customer_id,cust_name,city,grade,salesman_id from customerwhere
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 |
+-------------+---------------+-----------+-------+------------+
```

2. From the following table, write a SQL query to find all the customers in 'NewYork' city who have a grade value above 100. Return customer_id, cust_name, city, grade, and salesman_id.

```
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
```

```
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 whobelong to either the city 'New York' or have a grade above 100. Return customer_id, cust_name, city, grade, and salesman_id.

```
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
```

```
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 |
+-------------+---------------+----------+-------+-------------+
```

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.

```
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
```

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

5. From the following table, write a SQL query to find those customers whobelong to neither the 'New York' city nor their grade value exceeds 100. Return customer_id, cust_name, city, grade, and salesman_id.

```
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
mysql> select * from customer where city<>'new york' and 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.

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

```
mysql> select * from orders where ord_date<>'2012-09-10' and (salesman_id>5005
or purch_amt >1000);
+--------+-----------+------------+-------------+-------------+
| ord_no | purch_amt | ord_date   | customer_id | salesman_id |
+--------+-----------+------------+-------------+-------------+
| 70005 |    2400.6 | 2012-07-27 |        3007 |        5001 |
| 70010 |   1983.43 | 2012-10-10 |        3004 |        5006 |
| 70003 |    2480.4 | 2012-10-10 |        3009 |        5003 |
| 70011 |     75.29 | 2012-08-17 |        3003 |        5007 |
| 70013 |    3045.6 | 2012-04-25 |        3002 |        5001 |
+--------+-----------+------------+-------------+-------------+
```

7. From the following table, write a SQL query to find the details of those salespeople whose commissions range from 0.10 to0.12. Return salesman_id, name, city, and commission.

```
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
```

```
mysql> select * from salesman where commission between 0.10 and 0.12;
+-------------+-------------+----------+------------+
| salesman_id | name        | city     | commission |
+-------------+-------------+----------+------------+
|        5005 | Pit Alex    | London   |       0.11 |
|        5007 | Paul Adam   | Rome     |       0.13 |
|        5003 | Lauson Hen  | San Jose |       0.12 |
+-------------+-------------+----------+------------+
```

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 greaterthan or equal to '2012-02-10' and customer ID less than 3009. Return ord_no, purch_amt, ord_date, customer_id and salesman_id.

```
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 |
+--------+------------+------------+-------------+------------+
```

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.

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

```
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

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.

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

```
mysql> SELECT ord_no, purch_amt (100*purch_amt)/6000 Achieved %,
    (100*(6000-purch_amt)/6000) Unachieved % FROM orders
   WHERE (100*purch_amt)/6000>50;
```

ord_no	purch_amt	Achieved %	Unachieved %
70008	5760	96	4
70013	3045.6	50.76000162760417	49.23999837239583

11. From the following table, write a SQL query to find the details of allemployees whose last name is ‘Dosni’ or ‘Mardy’. Return emp_idno, emp_fname, emp_lname, and emp_dept.

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

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

emp_idno     emp_fname    emp_lnam     emp_dept
                          e
---------- ------------------------------ ----------
444527       Joseph       Dosni        47
539569       George       Mardy        27
```

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.

```
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
```

```
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 |  Jhon  |  Snares |    63 |
| 444527 | Joseph   | Dosni |    47 |
|  659831 | Zanifer  |  Emily    47 |
                |
|  748681 | Henrey  | Gabriel    47 |
                |
| 733843 |  Mario  | Saule |    63 |
+---------+---------+---------+---------+
```