1.Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000.

mysql> select First_Name,last_Name,salary from employee_a where not salary between 10000 and 15000;

```
+-------------+-----------+----------+
| First_Name  | last_Name | salary   |
+-------------+-----------+----------+
| steven      | king      | 24000.00 |
| Neena       | Kochhar   | 17000.00 |
| Lex         | Dehaan    | 17000.00 |
| Alexander   | Hunold    |  9000.00 |
| Bruce       | Ernst     |  6000.00 |
| David       | Austin    |  4800.00 |
| Valli       | Pattabala |  4800.00 |
| Diana       | lorentz   |  4200.00 |
| Daniel      | Faviet    |  9000.00 |
| John        | Chen      |  8200.00 |
| Ismael      | Sciarra   |  7700.00 |
| Jose Manuel | Urman     |  7800.00 |
| Alexander   | Khoo      |  3100.00 |
| Shelli      | Baida     |  2900.00 |
+-------------+-----------+----------+
14 rows in set (0.00 sec)
```

2. Write a query to display the name (first_name, last_name) and department ID of all employees in departments 30 or 100 in ascending order.
Sample table: employees

mysql> select First_Name,Last_Name,Employee_Id from employee_a where department_id =30 or department_id =100 order by department_id ASC;

```
+-------------+-----------+-------------+
| First_Name  | Last_Name | Employee_Id |
+-------------+-----------+-------------+
| Den         | Raphaely  |         114 |
| Alexander   | Khoo      |         115 |
| Shelli      | Baida     |         116 |
| Nancy       | Greenbe   |         109 |
| Daniel      | Faviet    |         110 |
| John        | Chen      |         111 |
```

| Ismael | Sciarra | 112 |
| Jose Manuel | Urman | 113 |
+-------------+-----------+-------------+
8 rows in set (0.00 sec)

3.Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000 and are in department 30 or 100

mysql> select First_Name,last_Name,salary from employee_a where salary not between 10000 and 15000 and department_id in(30,100);
+-------------+-----------+---------+
| First_Name | last_Name | salary |
+-------------+-----------+---------+
Daniel	Faviet	9000.00
John	Chen	8200.00
Ismael	Sciarra	7700.00
Jose Manuel	Urman	7800.00
Alexander	Khoo	3100.00
Shelli	Baida	2900.00
+-------------+-----------+---------+
6 rows in set (0.00 sec)

4.Write a query to display the name (first_name, last_name) and hire date for all employees who were hired in 1987

mysql> select First_Name,Last_Name,hire_date from employee_a where hire_date BETWEEN '1987-01-01' AND '1987-12-31';
+-------------+-----------+------------+
| First_Name | Last_Name | hire_date |
+-------------+-----------+------------+
steven	king	1987-06-17
Neena	Kochhar	1987-06-18
Lex	Dehaan	1987-06-19
Alexander	Hunold	1987-06-20
Bruce	Ernst	1987-06-21
David	Austin	1987-06-22
Valli	Pattabala	1987-06-23
Diana	lorentz	1987-06-24
Nancy	Greenbe	1987-06-25
Daniel	Faviet	1987-06-26
John	Chen	1987-06-27
Ismael	Sciarra	1987-06-28
Jose Manuel	Urman	1987-06-29
Den	Raphaely	1987-07-01

| Alexander | Khoo | 1987-07-02 |
| Shelli | Baida | 1987-07-03 |
+------------+-----------+------------+
16 rows in set (0.00 sec)

5.Write a query to display the first_name of all employees who have both "b" and "c" in their first name.

mysql> select First_Name from employee_a where First_Name like '%b%' and First_Name like '%c%';
+------------+
| First_Name |
+------------+
| Bruce |
+------------+
1 row in set (0.00 sec)

6. Write a query to display the last name, job, and salary for all employees whose job is that of a Programmer or a Shipping Clerk, and whose salary is not equal to $4,500, $10,000, or $15,000.

mysql> select First_Name,Last_Name,salary,job_id from employee_a where job_id ='IT_PROG' OR job_id ='SH_CLERK' and salary not in(4500,10000,15000);
+------------+-----------+---------+----------+
| First_Name | Last_Name | salary | job_id |
+------------+-----------+---------+----------+
Alexander	Hunold	9000.00	IT_PROG
Bruce	Ernst	6000.00	IT_PROG
David	Austin	4800.00	IT_PROG
Valli	Pattabala	4800.00	IT_PROG
Diana	lorentz	4200.00	IT_PROG
Kelly	Chung	3800.00	SH_CLERK
Jennifer	Dilly	3600.00	SH_CLERK
Timothy	Gates	2900.00	SH_CLERK
+------------+-----------+---------+----------+
8 rows in set (0.00 sec)

7.Write a query to display the last name of employees whose names have exactly 6 characters.

mysql> select Last_Name from employee_a where LENGTH (Last_Name)=6;
+-----------+
| Last_Name |
+-----------+
| Dehaan |
| Hunold |

| Austin |
| Faviet |
+----------+
4 rows in set (0.00 sec)

8.Write a query to display the last name of employees having 'e' as the third character.

mysql> select Last_Name from employee_a where Last_Name like '__e%';
+----------+
| Last_Name |
+----------+
| Greenbe |
| Chen |
+----------+
2 rows in set (0.00 sec)

9.Write a query to display the jobs/designations available in the employees table.
mysql> select job_id from employee_a group by job_id;
+------------+
| job_id |
+------------+
| AD_PRES |
| AD_VP |
| IT_PROG |
| FI_MGR |
| FT_ACCOUNT |
| PU_MAN |
| PU_CLERK |
| SH_CLERK |
+------------+
8 rows in set (0.01 sec)

10.Write a query to display the name (first_name, last_name), salary and PF (15% of salary) of all employees.

mysql> select First_Name,Last_Name,salary,salary*0.15 as PF from employee_a;
+------------+----------+----------+---------+
| First_Name | Last_Name | salary | PF |
+------------+----------+----------+---------+
steven	king	24000.00	3600.00
Neena	Kochhar	17000.00	2550.00
Lex	Dehaan	17000.00	2550.00
Alexander	Hunold	9000.00	1350.00
Bruce	Ernst	6000.00	900.00

David	Austin	4800.00	720.00
Valli	Pattabala	4800.00	720.00
Diana	lorentz	4200.00	630.00
Nancy	Greenbe	12000.00	1800.00
Daniel	Faviet	9000.00	1350.00
John	Chen	8200.00	1230.00
Ismael	Sciarra	7700.00	1155.00
Jose Manuel	Urman	7800.00	1170.00
Den	Raphaely	11000.00	1650.00
Alexander	Khoo	3100.00	465.00
Shelli	Baida	2900.00	435.00
Kelly	Chung	3800.00	570.00
Jennifer	Dilly	3600.00	540.00
Timothy	Gates	2900.00	435.00
+-------------+-----------+----------+---------+
19 rows in set (0.00 sec)

11.Write a query to select all record from employees where last name in 'BLAKE', 'SCOTT', 'KING' and 'FORD'.

mysql> select * from employee_a where Last_Name in('Brake','Scott','King','Ford');
+-------------+------------+-----------+-------+--------------+------------+---------+----------+-------------+------------+---------------+
| Employee_id | First_Name | Last_Name | email | phone_number | Hire_date | job_id | salary | commission_pct | manager_id | department_id |
+-------------+------------+-----------+-------+--------------+------------+---------+----------+-------------+------------+---------------+
| 101 | steven | king | sking | 515.123.4567 | 1987-06-17 | AD_PRES | 24000.00 | 0.00 | 0 | 90 |
+-------------+------------+-----------+-------+--------------+------------+---------+----------+-------------+------------+---------------+
1 row in set (0.00 sec)