1. Create the following table with the given data as follows.

```
mysql> CREATE DATABASE IF NOT EXISTS employeedatabase;
Query OK, 1 row affected (0.06 sec)
```

```
mysql> CREATE TABLE Employee (
    ->     empid INT PRIMARY KEY,
    ->     acno INT,
    ->     ename VARCHAR(50),
    ->     sal INT,
    ->     bankname VARCHAR(50),
    ->     branch VARCHAR(50),
    ->     yearofjoin INT,
    ->     pastexp INT,
    ->     address VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> INSERT INTO Employee (empid, acno, ename, sal, bankname, branch, yearofjoin, pastexp, address) VALUES
    -> (1001, 123456, 'Pary', 25000, 'SBI', 'Mangalore', 2020, 3, 'Mangalore'),
    -> (1002, 234567, 'Nayan', 28500, 'BOB', 'Udipi', 2021, 2, 'Mangalore'),
    -> (1003, 345678, 'Alen', 24500, 'UBI', 'Bangalore', 2022, 1, 'Mangalore'),
    -> (1004, 456789, 'Mouni', 36000, 'KMB', 'Ujire', 2020, 3, 'Nitte'),
    -> (1005, 567891, 'Siddu', 32500, 'SBI', 'Udipi', 2021, 4, 'Nitte'),
    -> (1006, 678912, 'Alice', 25000, 'KMB', 'Mangalore', 2023, 0, 'Udipi'),
    -> (1007, 789123, 'Nikam', 24000, 'ICICI', 'Mangalore', 2023, 2, 'Udipi'),
    -> (1008, 891234, 'Komal', 31000, 'HDFC', 'Mangalore', 2024, 1, 'Ujire'),
    -> (1009, 912345, 'John', 29000, 'BOI', 'Ujire', 2020, 3, 'Ujire'),
    -> (1010, 101234, 'Enry', 28000, 'ICICI', 'Ujire', 2021, 2, 'Nitte'),
    -> (1011, 123890, 'Lilli', 36000, 'SBI', 'Mangalore', 2022, 0, 'Mangalore'),
    -> (1012, 890321, 'Peter', 34000, 'HDFC', 'Mangalore', 2023, 5, 'Udipi'),
    -> (1013, 123490, 'Bhuvi', 30000, 'SBI', 'Ujire', 2023, 2, 'Ujire'),
    -> (1014, 102938, 'Umanak', 22500, 'SBI', 'Udipi', 2024, 1, 'Nitte'),
    -> (1015, 752347, 'Sandy', 38900, 'KMB', 'Udipi', 2019, 2, 'Mangalore');
Query OK, 15 rows affected (0.02 sec)
Records: 15  Duplicates: 0  Warnings: 0

mysql> desc Employee;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| empid      | int         | NO   | PRI | NULL    |       |
| acno       | int         | YES  |     | NULL    |       |
| ename      | varchar(50) | YES  |     | NULL    |       |
| sal        | int         | YES  |     | NULL    |       |
| bankname   | varchar(50) | YES  |     | NULL    |       |
| branch     | varchar(50) | YES  |     | NULL    |       |
| yearofjoin | int         | YES  |     | NULL    |       |
| pastexp    | int         | YES  |     | NULL    |       |
| address    | varchar(100)| YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
9 rows in set (0.03 sec)

mysql>
```

2. Write a query to display all the records from the table.

```
mysql> SELECT * FROM Employee;
+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+
| empid | acno   | ename  | sal   | bankname | branch    | yearofjoin | pastexp | address   |
+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+
|  1001 | 123456 | Pary   | 25000 | SBI      | Mangalore |       2020 |       3 | Mangalore |
|  1002 | 234567 | Nayan  | 28500 | BOB      | Udipi     |       2021 |       2 | Mangalore |
|  1003 | 345678 | Alen   | 24500 | UBI      | Bangalore |       2022 |       1 | Mangalore |
|  1004 | 456789 | Mouni  | 36000 | KMB      | Ujire     |       2020 |       3 | Nitte     |
|  1005 | 567891 | Siddu  | 32500 | SBI      | Udipi     |       2021 |       4 | Nitte     |
|  1006 | 678912 | Alice  | 25000 | KMB      | Mangalore |       2023 |       0 | Udipi     |
|  1007 | 789123 | Nikam  | 24000 | ICICI    | Mangalore |       2023 |       2 | Udipi     |
|  1008 | 891234 | Komal  | 31000 | HDFC     | Mangalore |       2024 |       1 | Ujire     |
|  1009 | 912345 | John   | 29000 | BOI      | Ujire     |       2020 |       3 | Ujire     |
|  1010 | 101234 | Enry   | 28000 | ICICI    | Ujire     |       2021 |       2 | Nitte     |
|  1011 | 123890 | Lilli  | 36000 | SBI      | Mangalore |       2022 |       0 | Mangalore |
|  1012 | 890321 | Peter  | 34000 | HDFC     | Mangalore |       2023 |       5 | Udipi     |
|  1013 | 123490 | Bhuvi  | 30000 | SBI      | Ujire     |       2023 |       2 | Ujire     |
|  1014 | 102938 | Umanak | 22500 | SBI      | Udipi     |       2024 |       1 | Nitte     |
|  1015 | 752347 | Sandy  | 38900 | KMB      | Udipi     |       2019 |       2 | Mangalore |
+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+
15 rows in set (0.00 sec)
```

3. Write a query to display all the records from the table, whose branch and address both are the same.

```
mysql> SELECT * FROM Employee WHERE branch = address;
+-------+--------+-------+-------+----------+-----------+------------+---------+-----------+
| empid | acno   | ename | sal   | bankname | branch    | yearofjoin | pastexp | address   |
+-------+--------+-------+-------+----------+-----------+------------+---------+-----------+
|  1001 | 123456 | Pary  | 25000 | SBI      | Mangalore |       2020 |       3 | Mangalore |
|  1009 | 912345 | John  | 29000 | BOI      | Ujire     |       2020 |       3 | Ujire     |
|  1011 | 123890 | Lilli | 36000 | SBI      | Mangalore |       2022 |       0 | Mangalore |
|  1013 | 123490 | Bhuvi | 30000 | SBI      | Ujire     |       2023 |       2 | Ujire     |
+-------+--------+-------+-------+----------+-----------+------------+---------+-----------+
4 rows in set (0.02 sec)
```

4. Write a query to display employee acno, ename, bankname, and branch details whose salary is more than 30000.

```
mysql> SELECT acno, ename, bankname, branch
    -> FROM Employee
    -> WHERE sal > 30000;
+--------+-------+----------+-----------+
| acno   | ename | bankname | branch    |
+--------+-------+----------+-----------+
| 456789 | Mouni | KMB      | Ujire     |
| 567891 | Siddu | SBI      | Udipi     |
| 891234 | Komal | HDFC     | Mangalore |
| 123890 | Lilli | SBI      | Mangalore |
| 890321 | Peter | HDFC     | Mangalore |
| 752347 | Sandy | KMB      | Udipi     |
+--------+-------+----------+-----------+
6 rows in set (0.00 sec)
```

5. Write a query to display employee records who are earning less than 25000

```
mysql> SELECT *
    -> FROM Employee
    -> WHERE sal < 25000;
+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+
| empid | acno   | ename  | sal   | bankname | branch    | yearofjoin | pastexp | address   |
+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+
|  1003 | 345678 | Alen   | 24500 | UBI      | Bangalore |       2022 |       1 | Mangalore |
|  1007 | 789123 | Nikam  | 24000 | ICICI    | Mangalore |       2023 |       2 | Udipi     |
|  1014 | 102938 | Umanak | 22500 | SBI      | Udipi     |       2024 |       1 | Nitte     |
+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+
3 rows in set (0.01 sec)
```

6. Write a query to display the employee record of who is earning the highest salary

```
mysql> SELECT *
    -> FROM Employee
    -> WHERE sal = (SELECT MAX(sal) FROM Employee);
+-------+--------+-------+-------+----------+--------+------------+---------+-----------+
| empid | acno   | ename | sal   | bankname | branch | yearofjoin | pastexp | address   |
+-------+--------+-------+-------+----------+--------+------------+---------+-----------+
|  1015 | 752347 | Sandy | 38900 | KMB      | Udipi  |       2019 |       2 | Mangalore |
+-------+--------+-------+-------+----------+--------+------------+---------+-----------+
1 row in set (0.08 sec)
```

7. Write a query to display the employee name who is earning less salary

```
mysql> SELECT ename
    -> FROM Employee
    -> WHERE sal = (SELECT MIN(sal) FROM Employee);
+--------+
| ename  |
+--------+
| Umanak |
+--------+
1 row in set (0.00 sec)
```

8. Write a query to the employee ename, acno, and bankname who are earning in between 25000 and 32000 (both are included).

```
mysql> SELECT ename, acno, bankname
    -> FROM Employee
    -> WHERE sal BETWEEN 25000 AND 32000;
+-------+--------+----------+
| ename | acno   | bankname |
+-------+--------+----------+
| Pary  | 123456 | SBI      |
| Nayan | 234567 | BOB      |
| Alice | 678912 | KMB      |
| Komal | 891234 | HDFC     |
| John  | 912345 | BOI      |
| Enry  | 101234 | ICICI    |
| Bhuvi | 123490 | SBI      |
+-------+--------+----------+
7 rows in set (0.00 sec)
```

9. Write a query to display eid, ename, sal, acno who have an account in SBI bank.

```
mysql> SELECT empid, ename, sal, acno
    -> FROM Employee
    -> WHERE bankname = 'SBI';
+-------+--------+-------+--------+
| empid | ename  | sal   | acno   |
+-------+--------+-------+--------+
|  1001 | Pary   | 25000 | 123456 |
|  1005 | Siddu  | 32500 | 567891 |
|  1011 | Lilli  | 36000 | 123890 |
|  1013 | Bhuvi  | 30000 | 123490 |
|  1014 | Umanak | 22500 | 102938 |
+-------+--------+-------+--------+
5 rows in set (0.01 sec)
```

10. Write a query to display eid, ename, sal, acno who have an account in ICICI bank and from udipi branch.

```
mysql> SELECT empid, ename, sal, acno
    -> FROM Employee
    -> WHERE bankname = 'ICICI' AND branch = 'Udipi';
Empty set (0.00 sec)
```

11. Write a query to display eid, ename, sal, acno who have joined before 2023(2023 is excluded).

```
mysql> SELECT empid, ename, sal, acno
    -> FROM Employee
    -> WHERE yearofjoin < 2023;
+-------+-------+-------+--------+
| empid | ename | sal   | acno   |
+-------+-------+-------+--------+
|  1001 | Pary  | 25000 | 123456 |
|  1002 | Nayan | 28500 | 234567 |
|  1003 | Alen  | 24500 | 345678 |
|  1004 | Mouni | 36000 | 456789 |
|  1005 | Siddu | 32500 | 567891 |
|  1009 | John  | 29000 | 912345 |
|  1010 | Enry  | 28000 | 101234 |
|  1011 | Lilli | 36000 | 123890 |
|  1015 | Sandy | 38900 | 752347 |
+-------+-------+-------+--------+
9 rows in set (0.01 sec)
```

12. Write a query to display eid, ename, sal, acno, bankname and branch who have an account in SBI bank and joined after 2022.

```
mysql> SELECT empid, ename, sal, acno, bankname, branch
    -> FROM Employee
    -> WHERE bankname = 'SBI' AND yearofjoin > 2022;
+-------+--------+-------+--------+----------+--------+
| empid | ename  | sal   | acno   | bankname | branch |
+-------+--------+-------+--------+----------+--------+
|  1013 | Bhuvi  | 30000 | 123490 | SBI      | Ujire  |
|  1014 | Umanak | 22500 | 102938 | SBI      | Udipi  |
+-------+--------+-------+--------+----------+--------+
2 rows in set (0.00 sec)
```

13. Write a query to display eid, ename, sal, acno,address who have joined early from mangalore.

```
mysql> SELECT empid, ename, sal, acno, address
    -> FROM Employee
    -> WHERE branch = 'Mangalore' AND yearofjoin < 2020;
Empty set (0.00 sec)
```

14. Write a query to display eid, ename, sal, acno who have an account in SBI bank and whose name starts with ‘p’.

```
ysql> SELECT empid, ename, sal, acno
    -> FROM Employee
    -> WHERE bankname = 'SBI' AND ename LIKE 'P%';
-------+-------+-------+--------+
 empid | ename | sal   | acno   |
-------+-------+-------+--------+
  1001 | Pary  | 25000 | 123456 |
-------+-------+-------+--------+
 row in set (0.01 sec)
```

15. Write a query to display the number of employees having the same salary and that salary from the table.

```
mysql> SELECT sal, COUNT(*) AS num_employees
    -> FROM Employee
    -> GROUP BY sal
    -> HAVING COUNT(*) > 1;
+-------+---------------+
| sal   | num_employees |
+-------+---------------+
| 25000 |             2 |
| 36000 |             2 |
+-------+---------------+
2 rows in set (0.01 sec)
```