```
mysql> CREATE TABLE Employee (
    ->     EmpID INT PRIMARY KEY,
    ->     EmpName VARCHAR(50),
    ->     DeptID INT
    -> );
Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO Employee (EmpID, EmpName, DeptID) VALUES
    -> (1, 'Alice', 101),
    -> (2, 'Bob', 102),
    -> (3, 'Charlie', 103),
    -> (4, 'David', NULL);
Query OK, 4 rows affected (0.02 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from Employee;
+-------+---------+--------+
| EmpID | EmpName | DeptID |
+-------+---------+--------+
|     1 | Alice   |    101 |
|     2 | Bob     |    102 |
|     3 | Charlie |    103 |
|     4 | David   |   NULL |
+-------+---------+--------+
4 rows in set (0.00 sec)

mysql> CREATE TABLE Department (
    ->     DeptID INT PRIMARY KEY,
    ->     DeptName VARCHAR(50)
    -> );
Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO Department (DeptID, DeptName) VALUES
    -> (101, 'HR'),
    -> (102, 'IT'),
    -> (103, 'Finance'),
    -> (104, 'Marketing');
Query OK, 4 rows affected (0.02 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from Department;
+--------+----------+
| DeptID | DeptName |
+--------+----------+
|    101 | HR       |
|    102 | IT       |
|    103 | Finance  |
|    104 | Marketing |
+--------+----------+
```

```
mysql> CREATE VIEW EmpDept AS
    -> SELECT Employee.EmpName, Department.DeptName
    -> FROM Employee
    -> INNER JOIN Department ON Employee.DeptID = Department.DeptID;
Query OK, 0 rows affected (0.02 sec)

mysql> select * from EmpDept;
+---------+----------+
| EmpName | DeptName |
+---------+----------+
| Alice   | HR       |
| Bob     | IT       |
| Charlie | Finance  |
+---------+----------+
3 rows in set (0.00 sec)

mysql> CREATE INDEX idx_deptname ON Employee(DeptID);
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
mysql> SELECT EmpName, DeptID
    -> FROM Employee
    -> WHERE DeptID = 102;
+---------+--------+
| EmpName | DeptID |
+---------+--------+
| Bob     |    102 |
+---------+--------+
1 row in set (0.00 sec)

mysql>
```

```
mysql>
mysql> SELECT Employee.EmpName, Department.DeptName
    -> FROM Employee
    -> LEFT OUTER JOIN Department ON Employee.DeptID = Department.DeptID;
+---------+----------+
| EmpName | DeptName |
+---------+----------+
| Alice   | HR       |
| Bob     | IT       |
| Charlie | Finance  |
| David   | NULL     |
+---------+----------+
4 rows in set (0.00 sec)

mysql>
mysql> SELECT Employee.EmpName, Department.DeptName
    -> FROM Employee
    -> RIGHT OUTER JOIN Department ON Employee.DeptID = Department.DeptID;
+---------+-----------+
| EmpName | DeptName  |
+---------+-----------+
| Alice   | HR        |
| Bob     | IT        |
| Charlie | Finance   |
| NULL    | Marketing |
+---------+-----------+
4 rows in set (0.00 sec)

mysql>
```