Queries

• Create and Use a database named information.

```
mysql> create database information;
Query OK, 1 row affected (0.01 sec)
mysql> use information;
Database changed
```

• Create a table named employees and insert values.

```
mysql> create table employees (employee_id INT PRIMARY KEY AUTO_INCREMENT,name VARCHAR(50),department VARCHAR(50),salary INT,status VA RCHAR(50),hire date DATE);
Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO employees (employee_id, name, department, salary, status, hire_date) VALUES

-> (1, 'Alice', 'Sales', 40000, 'Active', '2021-05-12'),

-> (2, 'Bob', 'IT', 50000, 'Active', '2020-08-01'),

-> (3, 'Carol', 'HR', 45000, 'Active', '2020-03-15'),

-> (4, 'Dave', 'Sales', 42000, 'Active', '2023-03-15'),

-> (5, 'Eve', 'IT', 52000, 'Active', '2021-11-10');
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

• Show all employees.

```
mysql> select * from employees;
 employee_id | name
                     | department | salary | status | hire_date
               Alice
                       Sales
                                     40000
                                             Active
                                                      2021-05-12
               Bob
                                     50000
                                             Active
                                                      2020-08-01
               Carol
                       HR
                                     45000
                                             Active
                                                      2022-01-20
                       Sales
                                     42000
                                                      2023-03-15
               Dave
                                             Active
               Eve
                                     52000
                                             Active
                                                      2021-11-10
rows in set (0.00 sec)
```

Show only name and salary of employees.

```
mysql> select name, salary from employees;
+-----+
| name | salary |
+-----+
| Alice | 40000 |
| Bob | 50000 |
| Carol | 45000 |
| Dave | 42000 |
| Eve | 52000 |
+-----+
5 rows in set (0.00 sec)
```

• Show employees whose salary are more than 50000.

```
mysql> select * from employees where salary>50000;

+------+

| employee_id | name | department | salary | status | hire_date |

+------+

| 5 | Eve | IT | 52000 | Active | 2021-11-10 |

+-----+

1 row in set (0.00 sec)
```

• Show employees in department 'IT'.

```
mysql> select * from
                     employees where department='IT';
                                    salary
 employee id
                      department
                                                      hire date
               Bob
                       IT
                                     50000
                                             Active
                                                       2020-08-01
               Eve
                                     52000
                                             Active
                                                       2021-11-10
 rows in set (0.00 sec)
```

• Update Alice's salary to 45000.

```
mysql> update employees set salary=45000 where name='Alice';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
nysql> select * from employees;
                       department | salary | status | hire_date
 employee_id | name
               Alice
                        Sales
                                      45000
                                              Active
                                                        2021-05-12
               Bob
                                      50000
                                              Active
                                                        2020-08-01
               Carol
                        HR
                                      45000
                                              Active
                                                        2022-01-20
               Dave
                        Sales
                                      42000
                                              Active
                                                        2023-03-15
                                      52000
                                              Active
                                                        2021-11-10
               Eve
5 rows in set (0.00 sec)
```

• Change the status of employee id 3 to 'Inactive'.

```
mysql> update employees set status='Inactive' where employee_id='3';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from employees;
 employee_id | name
                        department
                                     salary |
                                              status
                                                         hire_date
                                                          2021-05-12
               Alice
                        Sales
                                      45000
                                              Active
               Bob
                                      50000
                                              Active
                                                          2020-08-01
                                      45000
                                              Inactive
                                                          2022-01-20
               Carol
                        HR
               Dave
                        Sales
                                      42000
                                              Active
                                                          2023-03-15
               Eve
                                      52000
                                              Active
                                                          2021-11-10
 rows in set (0.00 sec)
```

• Give a 10% raise to everyone in the IT department.

```
mysql> update employees set salary=1.10*salary where department='IT';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from employees;
  employee_id |
                 name
                          department
                                       salary
                                                   status
                                                               hire_date
                                                               2021-05-12
                 Alice
                          Sales
                                          45000
                                                   Active
                 Bob
                                          55000
                                                   Active
                                                               2020-08-01
                                                               2022-01-20
                 Carol
                          HR
                                          45000
                                                   Inactive
                                          42000
                                                   Active
                                                               2023-03-15
             4
                 Dave
                          Sales
                                          57200
                                                               2021-11-10
                 Eve
                                                   Active
 rows in set (0.00 sec)
```

• Update the department of Bob to 'HR'.

```
mysql> update employees set department='HR' where name='bob';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from employees;
  employee_id | name
                           | department |
                                              salary | status
                                                                      hire_date
                   Alice
                              Sales
                                               45000
                                                         Active
                                                                       2021-05-12
                   Bob
                                               55000
                                                         Active
                                                                       2020-08-01
                                                                       2022-01-20
                   Carol
                                               45000
                                                         Inactive
                   Dave
                             Sales
                                               42000
                                                         Active
                                                                       2023-03-15
                   Eve
                                               57200
                                                         Active
                                                                       2021-11-10
  rows in set (0.00 sec)
```

• Set the status of employees hired before 2021 to 'Retired'.

```
mysql> update employees set status='Retired' where hire_date<'2021-01-01';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
nysql> select * from employees;
 employee_id | name
                        | department
                                      | salary |
                                                  status
                                                               hire_date
             1
                 Alice
                          Sales
                                          45000
                                                   Active
                                                               2021-05-12
                                          55000
                                                   Retired
                                                               2020-08-01
                          HR
                 Bob
                                                               2022-01-20
                 Carol
                                          45000
                                                   Inactive
                          HR
                                                               2023-03-15
             4
                          Sales
IT
                                          42000
                                                   Active
                 Dave
                 Eve
                                          57200
                                                   Active
                                                               2021-11-10
 rows in set (0.00 sec)
```

• Increase the salary by 5000 for employee_id 4.

```
mysql> update employees set salary=salary+5000 where employee_id='4';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from employees;
                      | department | salary | status
                                                         hire date
 employee_id | name
               Alice
                        Sales
                                      45000
                                              Active
                                                          2021-05-12
               Bob
                        HR
                                      55000
                                              Retired
                                                          2020-08-01
                                                          2022-01-20
               Carol
                        HR
                                      45000
                                              Inactive
               Dave
                        Sales
                                      47000
                                              Active
                                                          2023-03-15
               Eve
                                      57200
                                              Active
                                                          2021-11-10
         set (0.00 sec
```

• Update the name of employee_id 5 to 'Evelyn'.

```
mysql> update employees set name='Evelyn' where employee_id='5';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
nysql> select * from employees;
  employee_id | name
                         | department | salary | status
                                                                hire_date
                                           45000
                                                                 2021-05-12
                 Bob
                                            55000
                                                     Retired
                                                                 2020-08-01
                 Carol
                                           45000
                                                                 2022-01-20
                           Sales
                                            47000
                                                                 2023-03-15
                 Evelyn
                                           57200
                                                                 2021-11-10
 rows in set (0.00 sec)
```

• Set salary to 0 for employees with status 'Inactive'.

```
mysql> UPDATE employees SET salary = 0 WHERE status = 'Inactive';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from employees;
  employee_id | name
                          department
                                        | salary | status
                                                                hire_date
                                           45000
                                                                2021-05-12
                 Bob
                                           55000
                                                    Retired
                                                                2020-08-01
                 Carol
                                               0
                                                    Inactive
                                                                2022-01-20
                                           47000
                 Dave
                           Sales
                                                    Active
                                                                2023-03-15
                                                                2021-11-10
                 Evelyn
                                           57200
                                                    Active
 rows in set (0.00 sec)
```

• Update the department to 'Management' for all employees in HR.

```
mysql> update employees set department='Management' where department='HR';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from employees;
 employee_id | name
                         department | salary |
                                                status
                                                          | hire_date
                         Sales
                                        45000
                                                            2021-05-12
            1
                         Management
                                                            2020-08-01
                Bob
                                        55000
                                                Retired
            2
                                                            2022-01-20
            3
                Carol
                         Management
                                                Inactive
                                           0
            4
                                        47000
                                                            2023-03-15
                Dave
                         Sales
                                                Active
                Evelyn
                                        57200
                                                Active
                                                            2021-11-10
 rows in set (0.00 sec)
```

• Increase salary by 2000 for employees with even employee_id.

```
mysql> update employees set salary=salary+2000 where employee_id%2=0;
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from employees;
                          | department |
 employee_id | name
                                                                hire_date
                                          salary |
                                                    status
                 Alice
                            Sales
                                           45000
                                                    Active
                                                                 2021-05-12
                 Bob
                            Management
                                           57000
                                                    Retired
                                                                 2020-08-01
                                                                 2022-01-20
                 Carol
                            Management
                                               0
                                                    Inactive
                                                                 2023-03-15
                 Dave
                            Sales
                                           49000
                                                    Active
                                                                 2021-11-10
                 Evelyn
                                           57200
                                                    Active
  rows in set (0.00 sec)
```

• Delete the employee whose name is Dave.

```
mysql> DELETE FROM employees WHERE name = 'Dave';
Query OK, 1 row affected (0.01 sec)
mysql> select * from employees;
                                       salary
 employee_id |
                         department
                                                status
                                                          | hire date
                name
                Alice
                                        45000
                                                            2021-05-12
                         Sales
                                                Active
                Bob
                         Management
                                        57000
                                                Retired
                                                            2020-08-01
                Carol
                                                            2022-01-20
                         Management
                                                Inactive
                                                            2021-11-10
                Evelyn
                                        57200
                                                Active
4 rows in set (0.00 sec)
```

• Delete all employees in the Sales department.

```
mysql> DELETE FROM employees WHERE department = 'Sales';
Query OK, 1 row affected (0.01 sec)
mysql> select * from employees;
 employee_id | name
                        | department |
                                      salary |
                                                status
                                                           hire date
                Bob
                                        57000
                                                Retired
                                                            2020-08-01
                         Management
                                                            2022-01-20
            3
                                                Inactive
                Carol
                         Management
                                            0
                Evelyn
                                        57200
                                                Active
                                                            2021-11-10
3 rows in set (0.00 sec)
```

Delete employees whose salary is less than 42000.

```
mysql> DELETE FROM employees WHERE salary < 42000;
Query OK, 1 row affected (0.01 sec)
mysql> select * from employees;
 employee id |
               name
                         department
                                      salary |
                                               status
                                                          hire date
                Bob
                                        57000
                                                Retired
                                                          2020-08-01
                         Management
                Evelyn
                                        57200
                                                Active
                                                          2021-11-10
 rows in set (0.00 sec)
```

• Delete employees hired after 2022-01-01.

• Delete all employees whose status is 'Retired'.

```
mysql> DELETE FROM employees WHERE status = 'Retired';
Query OK, 1 row affected (0.01 sec)

mysql> select * from employees;

+------+

| employee_id | name | department | salary | status | hire_date |

+------+

| 5 | Evelyn | IT | 57200 | Active | 2021-11-10 |

+------+

1 row in set (0.00 sec)
```