

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 VARCHAR(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', '2022-01-20'),
-> (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 |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Sales | 40000 | Active | 2021-05-12 |
| 2 | Bob | IT | 50000 | Active | 2020-08-01 |
| 3 | Carol | HR | 45000 | Active | 2022-01-20 |
| 4 | Dave | Sales | 42000 | Active | 2023-03-15 |
| 5 | Eve | IT | 52000 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
5 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';
+-----+-----+-----+-----+-----+-----+
| employee_id | name | department | salary | status | hire_date |
+-----+-----+-----+-----+-----+-----+
|          2 | Bob  | IT          | 50000 | Active | 2020-08-01 |
|          5 | Eve  | IT          | 52000 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
2 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

mysql> select * from employees;
+-----+-----+-----+-----+-----+-----+
| employee_id | name | department | salary | status | hire_date |
+-----+-----+-----+-----+-----+-----+
|          1 | Alice | Sales      | 45000 | Active | 2021-05-12 |
|          2 | Bob  | IT          | 50000 | Active | 2020-08-01 |
|          3 | Carol | HR          | 45000 | Active | 2022-01-20 |
|          4 | Dave | Sales      | 42000 | Active | 2023-03-15 |
|          5 | Eve  | IT          | 52000 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
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 |
+-----+-----+-----+-----+-----+-----+
|          1 | Alice | Sales      | 45000 | Active | 2021-05-12 |
|          2 | Bob  | IT          | 50000 | Active | 2020-08-01 |
|          3 | Carol | HR          | 45000 | Inactive | 2022-01-20 |
|          4 | Dave | Sales      | 42000 | Active | 2023-03-15 |
|          5 | Eve  | IT          | 52000 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
5 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 |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Sales | 45000 | Active | 2021-05-12 |
| 2 | Bob | IT | 55000 | Active | 2020-08-01 |
| 3 | Carol | HR | 45000 | Inactive | 2022-01-20 |
| 4 | Dave | Sales | 42000 | Active | 2023-03-15 |
| 5 | Eve | IT | 57200 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
5 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 |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Sales | 45000 | Active | 2021-05-12 |
| 2 | Bob | HR | 55000 | Active | 2020-08-01 |
| 3 | Carol | HR | 45000 | Inactive | 2022-01-20 |
| 4 | Dave | Sales | 42000 | Active | 2023-03-15 |
| 5 | Eve | IT | 57200 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
5 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

mysql> select * from employees;
+-----+-----+-----+-----+-----+-----+
| employee_id | name | department | salary | status | hire_date |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Sales | 45000 | Active | 2021-05-12 |
| 2 | Bob | HR | 55000 | Retired | 2020-08-01 |
| 3 | Carol | HR | 45000 | Inactive | 2022-01-20 |
| 4 | Dave | Sales | 42000 | Active | 2023-03-15 |
| 5 | Eve | IT | 57200 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
5 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;
```

employee_id	name	department	salary	status	hire_date
1	Alice	Sales	45000	Active	2021-05-12
2	Bob	HR	55000	Retired	2020-08-01
3	Carol	HR	45000	Inactive	2022-01-20
4	Dave	Sales	47000	Active	2023-03-15
5	Eve	IT	57200	Active	2021-11-10

```
5 rows in 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

mysql> select * from employees;
```

employee_id	name	department	salary	status	hire_date
1	Alice	Sales	45000	Active	2021-05-12
2	Bob	HR	55000	Retired	2020-08-01
3	Carol	HR	45000	Inactive	2022-01-20
4	Dave	Sales	47000	Active	2023-03-15
5	Evelyn	IT	57200	Active	2021-11-10

```
5 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
1	Alice	Sales	45000	Active	2021-05-12
2	Bob	HR	55000	Retired	2020-08-01
3	Carol	HR	0	Inactive	2022-01-20
4	Dave	Sales	47000	Active	2023-03-15
5	Evelyn	IT	57200	Active	2021-11-10

```
5 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
1	Alice	Sales	45000	Active	2021-05-12
2	Bob	Management	55000	Retired	2020-08-01
3	Carol	Management	0	Inactive	2022-01-20
4	Dave	Sales	47000	Active	2023-03-15
5	Evelyn	IT	57200	Active	2021-11-10

```
5 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;
+-----+-----+-----+-----+-----+-----+
| employee_id | name  | department | salary | status | hire_date |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Sales      | 45000 | Active | 2021-05-12 |
| 2 | Bob   | Management | 57000 | Retired | 2020-08-01 |
| 3 | Carol | Management | 0     | Inactive | 2022-01-20 |
| 4 | Dave  | Sales      | 49000 | Active | 2023-03-15 |
| 5 | Evelyn | IT         | 57200 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
5 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;
+-----+-----+-----+-----+-----+-----+
| employee_id | name  | department | salary | status | hire_date |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Sales      | 45000 | Active | 2021-05-12 |
| 2 | Bob   | Management | 57000 | Retired | 2020-08-01 |
| 3 | Carol | Management | 0     | Inactive | 2022-01-20 |
| 5 | Evelyn | IT         | 57200 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
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 |
+-----+-----+-----+-----+-----+-----+
| 2 | Bob   | Management | 57000 | Retired | 2020-08-01 |
| 3 | Carol | Management | 0     | Inactive | 2022-01-20 |
| 5 | Evelyn | IT         | 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 |
+-----+-----+-----+-----+-----+-----+
| 2 | Bob   | Management | 57000 | Retired | 2020-08-01 |
| 5 | Evelyn | IT         | 57200 | Active | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

- Delete employees hired after 2022-01-01.

```
mysql> DELETE FROM employees WHERE hire_date > '2022-01-01';
Query OK, 0 rows affected (0.00 sec)

mysql> select * from employees;
+-----+-----+-----+-----+-----+-----+
| employee_id | name   | department | salary | status | hire_date |
+-----+-----+-----+-----+-----+-----+
|          2 | Bob   | Management | 57000 | Retired | 2020-08-01 |
|          5 | Evelyn | IT         | 57200 | Active  | 2021-11-10 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

- 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)
```