1. **Query:**

SELECT\* FROM employees;

**Output:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Id | First\_name | Last\_name | Department | Salary | Hire\_date | City |
| 1 | John | Doe | IT | 55000 | 2018-06-15 | New York |
| 2 | Jane | Smith | HR | 48000 | 2019-07-20 | Chicago |
| 3 | Mike | Johnson | Finance | 60000 | 2017-09-30 | Los Angeles |
| 4 | Sarah | Brown | IT | 53000 | 2021-03-25 | New York |
| 5 | David | White | Marketing | 52000 | 2016-04-10 | San Francisco |
| 6 | Emily | Davis | IT | 62000 | 2015-02-14 | Chicago |
| 7 | Robert | Wilson | Finance | 59000 | 2019-10-01 | Houston |
| 8 | Jessica | Moore | HR | 51000 | 2018-05-22 | Los Angeles |
| 9 | Daniel | Clark | Marketing | 53000 | 2022-06-01 | Chicago |
| 10 | Laura | Hall | IT | 50000 | 2020-08-10 | San Franciso |

1. **Query:**

SELECT DISTINCT department FROM employees;

**Output:**

|  |
| --- |
| Department |
| IT |
| HR |
| Finance |
| Marketing |

1. **Query:**

SELECT first\_name,

last\_name,

salary

FROM employees

ORDER BY salary DESC;

**Output:**

|  |  |  |
| --- | --- | --- |
| First\_name | Last\_name | Salary |
| Emily | Davis | 62000 |
| Mike | Johnson | 60000 |
| Robert | Wilson | 59000 |

1. **Query:**

SELECT first\_name,

last\_name,

salary

FROM employees

ORDER BY salary

DESC LIMIT 5;

**Output:**

|  |  |  |
| --- | --- | --- |
| First\_name | Last\_name | Salary |
| Emily | Davis | 62000 |
| Mike | Johnson | 60000 |
| Robert | Wilson | 59000 |
| John | Doe | 55000 |
| Sarah | Brown | 53000 |

1. **Query:**

SELECT first\_name,

last\_name,

department

FROM employees

WHERE department = 'IT';

**Output:**

|  |  |  |
| --- | --- | --- |
| First\_name | Last\_name | Department |
| John | Doe | IT |
| Sarah | Brown | IT |

1. **Query:**

SELECT first\_name,

last\_name,

department,

salary

FROM employees

WHERE department = 'Finance'

AND salary > 58000;

**Output:**

|  |  |  |  |
| --- | --- | --- | --- |
| First\_name | Last\_name | Department | Salary |
| Mike | Johnson | Finance | 60000 |

1. **Query:**

SELECT first\_name,

last\_name,

department

FROM employees

WHERE department = 'HR' OR department = 'Marketing';

**Output:**

|  |  |  |
| --- | --- | --- |
| First\_name | Last\_name | Salary |
| Jane | Smith | HR |
| Jessica | Moore | HR |
| David | White | Marketing |

1. **Query:**

SELECT first\_name,

last\_name,

department

FROM employees

WHERE NOT department = 'IT';

**Output:**

|  |  |  |
| --- | --- | --- |
| First\_name | Last\_name | Department |
| Jane | Smith | HR |
| Mike | Johnson | Finance |

1. **Query:**

SELECT first\_name,

last\_name,

department

FROM employees

WHERE department IN ('HR', 'IT', 'Finance');**Output:**

|  |  |  |
| --- | --- | --- |
| First\_name | Last\_name | Department |
| John | Doe | IT |
| Jane | Smith | HR |
| Robert | Wilson | Finance |
| Mike | Johnson | Finance |

1. **Query:**

SELECT first\_name,

last\_name,

salary,

city

FROM

employees

WHERE department = 'IT' AND salary > 50000 AND city = 'New York';

**Output:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| First\_name | Last\_name | Department | Salary | City |
| John | Doe | IT | 55000 | New York |

1. **Query:**

SELECT first\_name,

last\_name,

department,

salary

FROM employees WHERE (department = 'Finance' OR department = 'Marketing') AND salary > 52000 ORDER BY salary DESC;

**Output:**

|  |  |  |  |
| --- | --- | --- | --- |
| First\_name | Last\_name | Department | Salary |
| Mike | Johnson | Finance | 60000 |
| Robert | Wilson | Finance | 59000 |

1. **Query:**

SELECT DISTINCT city

FROM employees

WHERE department NOT IN ('IT', 'HR');

**Output:**

|  |
| --- |
| City |
| Los Angeles |
| San Francisco |
| Houston |
| Chicago |

1. **Query:**

SELECT first\_name,

last\_name,

department,

salary,

hire\_date

FROM employees

WHERE department != 'Finance' AND salary > 50000

ORDER BY hire\_date ASC;

**Output:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| First\_name | Last\_name | Department | Salary | Hire\_date |
| Mike | Johnson | Finance | 60000 | 2017-09-30 |
| Robert | Wilson | Finance | 59000 | 2019-10-01 |

1. **Query:**

SELECT first\_name,

last\_name,

department,

city

FROM employees

WHERE city IN ('Chicago', 'Los Angeles')

AND department IN ('IT', 'Marketing')

LIMIT 3;

**Output:**

|  |  |  |  |
| --- | --- | --- | --- |
| First\_name | Last\_name | Department | City |
| Emily | Davis | IT | Chicago |
| Daniel | Clark | Marketing | Chicago |

1. **Query:**

SELECT first\_name,

last\_name,

department,

salary,

city

FROM employees

WHERE (department = 'IT' OR department = 'Finance')

AND city != 'San Francisco'

AND salary > 55000 ORDER BY salary DESC

LIMIT 5;

**Output:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| First\_name | Last\_name | Department | Salary | City |
| Emily | Davis | IT | 62000 | Chicago |
| Mike | Johnson | Finance | 60000 | Los Angeles |
| Robert | Wilson | Finance | 59000 | Houston |
| Laura | Hall | IT | 50000 | San Francisco |
| John | Doe | IT | 50000 | New York |