Create table:

|  |  |
| --- | --- |
| CREATE TABLE Employee (  id INT,  name VARCHAR(255),  occupation VARCHAR(255),  salary INT,  leader\_id INT,  PRIMARY KEY (id)  ); |  |

Insert Data into tables:

|  |  |
| --- | --- |
| INSERT INTO Employee (id, name, occupation, salary, leader\_id)  VALUES (1, 'Joshim', 'Doctor', 45000, NULL),  (2, 'Aleya', 'Doctor', 15000, 1),  (3, 'Galib', 'Engineer', 12000, 5),  (4, 'Caynath', 'Professor', 17000, 6),  (5, 'Majbah Habib', 'Singer', 35000, 6),  (6, 'Sanjidah', 'Singer', 40000, 6),  (7, 'Jui akter', 'Singer', 20000, 6),  (8, 'Korim', 'Architect', 5000, 5); |  |

Fetching all data using select:

|  |  |
| --- | --- |
| SELECT \* FROM Employee |  |

Fetching specific fields using select

|  |  |
| --- | --- |
| SELECT name FROM employee |  |

Fetch data using the alias

|  |  |
| --- | --- |
| SELECT id AS ID, name AS Emp\_Name, occupation AS Job  FROM Employee; |  |

Show unique data from the table

|  |  |
| --- | --- |
| SELECT DISTINCT occupation FROM employee; |  |

Fetching data using where the condition

|  |  |
| --- | --- |
| SELECT \* FROM `employee` WHERE occupation = 'Doctor';  SELECT \* FROM `employee` WHERE name = 'Galib'; |  |

Fetching data and use (and, or, not)

|  |  |
| --- | --- |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) leader\_id FROM employee where salary > 40000 [OR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) occupation = 'doctor';    SELECT \* FROM employee  WHERE NOT salary > 20000; | SELECT Name FROM employee WHERE salary > 5000 AND salary < 20000; |

Fetching data and use order by, asc, desc

|  |  |
| --- | --- |
| SELECT \* FROM employee  ORDER BY occupation DESC, salary ASC; |  |

Fetching data by using Limit Offset

|  |  |
| --- | --- |
| SELECT \* FROM employee  LIMIT 2 OFFSET 3; |  |

Fetching data by using Like and Wildcards

|  |  |
| --- | --- |
| SELECT \* FROM employee  WHERE name LIKE '%m'; |  |

Condition apply by use in and between

|  |  |
| --- | --- |
| SELECT \* FROM employee  WHERE leader\_id BETWEEN 3 AND 5; |  |
| SELECT \* FROM employee  WHERE occupation in ('Doctor', 'Engineer'); |  |

Create table, Insert values into table:

|  |  |
| --- | --- |
| CREATE TABLE StudentReport (  StudentID INT PRIMARY KEY,  FirstName VARCHAR(50),  LastName VARCHAR(50),  Age INT,  Gender VARCHAR(10),  Grade VARCHAR(2)  );  INSERT INTO StudentReport (StudentID, FirstName, LastName, Age, Gender, Grade)  VALUES  (1, 'John', 'Doe', 20, 'Male', 'A'),  (2, 'Jane', 'Smith', 21, 'Female', 'B'),  (3, 'Alice', 'Johnson', 22, 'Female', 'B+'),  (4, 'Bob', 'Brown', 20, 'Male', 'C'),  (5, 'Charlie', 'Davis', 23, 'Male', 'A-'),  (6, 'Eve', 'Wilson', 22, 'Female', 'B'),  (7, 'Frank', 'Lee', 21, 'Male', 'C+'),  (8, 'Grace', 'Clark', 20, 'Female', 'A'),  (9, 'Henry', 'Martinez', 23, 'Male', 'B-'),  (10, 'Ivy', 'Garcia', 21, 'Female', 'C'); |  |

|  |  |
| --- | --- |
| SELECT \* FROM studentreport |  |
| SELECT Gender FROM studentreport |  |
| SELECT FirstName AS First\_Name, LastName AS Last\_Name, Age, Gender  FROM StudentReport; |  |
| SELECT DISTINCT age, gender FROM studentreport; |  |
| SELECT \* FROM studentreport WHERE (age BETWEEN 20 AND 25) AND (gender = 'Male' OR grade = 'A'); |  |
| SELECT \* FROM studentreport ORDER BY age DESC; |  |
| SELECT \* FROM studentreport LIMIT 2,5; |  |
| SELECT \* FROM studentreport WHERE Gender LIKE 'f\_\_\_\_e'; |  |