Q. Create table

CREATE TABLE Emp (

empid int NOT NULL PRIMARY KEY,

fname varchar(20) NOT NULL,

lname varchar(20) NOT NULL,

mobile number(10) NOT NULL UNIQUE,

emailid varchar(25) NOT NULL,

Dept varchar(15) NOT NULL,

salary number(10) NOT NULL

);

DESCRIBE EMP;

|  |
| --- |
|  |
| **Table** | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** |
| [EMP](javascript:ret_Column('SYSTEM.EMP');) | [EMPID](javascript:ret_Column('EMPID');) | Number | - | - | 0 | 1 | - | - | - |
|  | [FNAME](javascript:ret_Column('FNAME');) | Varchar2 | 20 | - | - | - | - | - | - |
|  | [LNAME](javascript:ret_Column('LNAME');) | Varchar2 | 20 | - | - | - | - | - | - |
|  | [MOBILE](javascript:ret_Column('MOBILE');) | Number | - | 10 | 0 | - | - | - | - |
|  | [EMAILID](javascript:ret_Column('EMAILID');) | Varchar2 | 25 | - | - | - | - | - | - |
|  | [DEPT](javascript:ret_Column('DEPT');) | Varchar2 | 15 | - | - | - | - | - | - |
|  | [SALARY](javascript:ret_Column('SALARY');) | Number | - | 10 | 0 | - | - | - | - |
| |  |  |  |  | | --- | --- | --- | --- | |  |  | 1 - 7 |  | | | | | | | | | | | |

Q. Insert Rows

INSERT INTO Emp VALUES (1, 'Shreyas', 'Tamboli', 9503661263, 'shreyas@gmail.com', 'Development',8000);

INSERT INTO Emp VALUES (2, 'Mahesh', 'Gavale', 7896458512, 'mahesh@gmail.com', 'Development',8000);

INSERT INTO Emp VALUES (3, 'Rohit', 'Shinde', 8596478963, 'Rohitshinde@gmail.com', 'QA',8500);

INSERT INTO Emp VALUES (4, 'Sagar', 'shinde', 9685784593, 'shindes@gmail.com', 'QA',7000);

INSERT INTO Emp VALUES (5, 'Sidhant', 'Shah', 7854269836, 'shahsid@gmail.com', 'IT',5000);

Select \* from Emp;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 |
| 2 | Mahesh | Gavale | 7896458512 | mahesh@gmail.com | Development | 8000 |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | QA | 8500 |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |
| 5 | Sidhant | Shah | 7854269836 | shahsid@gmail.com | IT | 5000 |

Q. Update

UPDATE Emp

SET Dept = 'HR', salary= 10000

WHERE empid = 3;

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 |
| 2 | Mahesh | Gavale | 7896458512 | mahesh@gmail.com | Development | 8000 |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | HR | 10000 |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |
| 5 | Sidhant | Shah | 7854269836 | shahsid@gmail.com | IT | 5000 |

Q. Delete

DELETE FROM Emp WHERE empid=5;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 |
| 2 | Mahesh | Gavale | 7896458512 | mahesh@gmail.com | Development | 8000 |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | HR | 10000 |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |

Q. Where Claus

select \* from Emp where Dept='HR';

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | HR | 10000 |

Q. Having , Group by

SELECT SUM(salary), Dept FROM Emp GROUP BY Dept HAVING SUM(salary)>5000;

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

|  |  |
| --- | --- |
| **SUM(SALARY)** | **DEPT** |
| 16000 | Development |
| 7000 | QA |
| 10000 | HR |

Q. Operator

SELECT \* FROM Emp

WHERE salary BETWEEN 7000 AND 8500;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 |
| 2 | Mahesh | Gavale | 7896458512 | mahesh@gmail.com | Development | 8000 |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |

SELECT \* FROM Emp

WHERE Dept IN ('QA','HR');

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | HR | 10000 |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |

Q. Whilcard

Like

SELECT \* FROM Emp

WHERE fname LIKE 'S%';

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |

Q. Order by

SELECT \* FROM Emp

ORDER BY salary;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** |
| 4 | Sagar | shinde | 9685784593 | shindes@gmail.com | QA | 7000 |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 |
| 2 | Mahesh | Gavale | 7896458512 | mahesh@gmail.com | Development | 8000 |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | HR | 10000 |

Q. Sring Function

lower

SELECT LOWER(fname) AS Lowercasefname

FROM Emp;

|  |
| --- |
| **LOWERCASEFNAME** |
| shreyas |
| mahesh |
| Rohit |
| sagar |

Reverse

SELECT REVERSE(lname)

FROM Emp;

|  |
| --- |
| **REVERSE(LNAME)** |
| ilobmaT |
| elavaG |
| ednihS |
| ednihs |

Q. Aggrigate function

Sum

SELECT SUM(salary)

FROM Emp;

|  |
| --- |
| **SUM(SALARY)** |
| 33000 |

Count

SELECT Count(empid)

FROM Emp;

|  |
| --- |
| **COUNT(EMPID)** |
| 4 |

Min

SELECT MIN(salary) AS minsal

FROM emp;

|  |
| --- |
| **MINSAL** |
| 7000 |

Select fname, lname,Dept from Emp where Dept='QA';

|  |  |  |
| --- | --- | --- |
| **FNAME** | **LNAME** | **DEPT** |
| Sagar | shinde | QA |

select DISTINCT(Dept) from Emp;

|  |
| --- |
| **DEPT** |
| Development |
| QA |
| HR |

Q. Date Function

ALTER TABLE Emp

ADD Jdate DATE;

UPDATE Emp

SET Jdate = '14-Feb-2022'

WHERE empid = 1;

UPDATE Emp

SET Jdate = '15-jan-2022'

WHERE empid = 2;

UPDATE Emp

SET Jdate = '14-Feb-2022'

WHERE empid = 3;

UPDATE Emp

SET Jdate = '14-oct-2021'

WHERE empid = 4;

SELECT \* FROM Emp WHERE Jdate='14-Feb-2022';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPID** | **FNAME** | **LNAME** | **MOBILE** | **EMAILID** | **DEPT** | **SALARY** | **JDATE** |
| 1 | Shreyas | Tamboli | 9503661263 | shreyas@gmail.com | Development | 8000 | 14-FEB-22 |
| 3 | Rohit | Shinde | 8596478963 | Rohitshinde@gmail.com | HR | 10000 | 14-FEB-22 |

SELECT CURRENT\_DATE FROM Emp;

|  |
| --- |
| **CURRENT\_DATE** |
| 16-FEB-22 |
| 16-FEB-22 |
| 16-FEB-22 |
| 16-FEB-22 |