CREATE DATABASE JOIN\_db;

CREATE TABLE Departments(

dept\_id int NOT NULL PRIMARY KEY,

dept\_name varchar(50),

location varchar(50)

);

SELECT \* FROM Departments;

CREATE TABLE Employees(

emp\_id int NOT NULL PRIMARY KEY,

emp\_name varchar(50),

dept\_id int,

age int,

salary int

FOREIGN KEY (dept\_id) REFERENCES Departments(dept\_id),

);

SELECT \* FROM Employees;

INSERT INTO Departments VALUES

(1,'HR','New York'),

(2,'Finance','San Francisco'),

(3,'Engineering','Borton'),

(4,'Sales','Chicago');

INSERT INTO Employees VALUES

(1,'Anchal',1,28,60000),

(2,'Nisha',2,32,75000),

(3,'Ayush',3,26,80000),

(4,'Arpan',3,29,82000),

(5,'Roshan',4,27,55000),

(6,'Virat',4,30,58000),

(7,'Rohit',1,31,82000);

1. SELECT\*FROM Employees;

SELECT E.emp\_name,D.dept\_name FROM Departments as D

INNER JOIN Employees AS E

ON d.dept\_id=E.dept\_id;

1. SELECT E.emp\_name,D.dept\_name FROM Departments as D

LEFT JOIN Employees AS E

ON d.dept\_id=E.dept\_id;

1. SELECT E.emp\_name,D.dept\_name FROM Departments as D

Right JOIN Employees AS E

ON d.dept\_id=E.dept\_id;

1. SELECT

D.dept\_name,

COUNT(Employees.emp\_id) AS Emp\_count

FROM

Departments AS D

JOIN

Employees ON d.dept\_id=Employees.dept\_id

GROUP BY

D.dept\_name;

1. SELECT

Employees.emp\_name,

Departments.dept\_name,

Employees.salary

FROM Employees

JOIN

Departments ON Employees.dept\_id = Departments.dept\_id

WHERE

Employees.salary > 60000;

1. SELECT

e.emp\_name,

d.dept\_name,

e.salary

FROM

Employees e

JOIN

Departments d ON e.dept\_id = d.dept\_id

WHERE

e.salary = (SELECT MAX(salary)

FROM Employees

WHERE dept\_id = e.dept\_id);