DROP DATABASE IF EXISTS ORG123;

CREATE DATABASE ORG123;

USE ORG123;

CREATE TABLE Worker (

WORKER\_ID INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

FIRST\_NAME CHAR(25),

LAST\_NAME CHAR(25),

SALARY INT,

JOINING\_DATE DATETIME,

DEPARTMENT CHAR(25)

);

INSERT INTO Worker

(FIRST\_NAME, LAST\_NAME, SALARY, JOINING\_DATE, DEPARTMENT) VALUES

('Monika', 'Arora', 100000, '2014-02-20 09:00:00', 'HR'),

('Niharika', 'Verma', 80000, '2014-06-11 09:00:00', 'Admin'),

('Vishal', 'Singhal', 300000, '2014-02-20 09:00:00', 'HR'),

('Amitabh', 'Singh', 500000, '2014-02-20 09:00:00', 'Admin'),

('Vivek', 'Bhati', 500000, '2014-06-11 09:00:00', 'Admin'),

('Vipul', 'Diwan', 200000, '2014-06-11 09:00:00', 'Account'),

('Satish', 'Kumar', 75000, '2014-01-20 09:00:00', 'Account'),

('Geetika', 'Chauhan', 90000, '2014-04-11 09:00:00', 'Admin');

CREATE TABLE Bonus (

WORKER\_REF\_ID INT,

BONUS\_AMOUNT INT,

BONUS\_DATE DATETIME,

FOREIGN KEY (WORKER\_REF\_ID) REFERENCES Worker(WORKER\_ID) ON DELETE CASCADE

);

INSERT INTO Bonus

(WORKER\_REF\_ID, BONUS\_AMOUNT, BONUS\_DATE) VALUES

(1, 5000, '2016-02-20 00:00:00'),

(2, 3000, '2016-06-11 00:00:00'),

(3, 4000, '2016-02-20 00:00:00'),

(1, 4500, '2016-02-20 00:00:00'),

(2, 3500, '2016-06-11 00:00:00');

CREATE TABLE Title (

WORKER\_REF\_ID INT,

WORKER\_TITLE CHAR(25),

AFFECTED\_FROM DATETIME,

FOREIGN KEY (WORKER\_REF\_ID) REFERENCES Worker(WORKER\_ID) ON DELETE CASCADE

);

INSERT INTO Title

(WORKER\_REF\_ID, WORKER\_TITLE, AFFECTED\_FROM) VALUES

(1, 'Manager', '2016-02-20 00:00:00'),

(2, 'Executive', '2016-06-11 00:00:00'),

(8, 'Executive', '2016-06-11 00:00:00'),

(5, 'Manager', '2016-06-11 00:00:00'),

(4, 'Asst. Manager', '2016-06-11 00:00:00'),

(7, 'Executive', '2016-06-11 00:00:00'),

(6, 'Lead', '2016-06-11 00:00:00'),

(3, 'Lead', '2016-06-11 00:00:00');

SELECT DISTINCT DEPARTMENT FROM Worker;

SELECT \* FROM Worker

ORDER BY FIRST\_NAME ASC, DEPARTMENT DESC;

SELECT \* FROM Worker

WHERE FIRST\_NAME LIKE '%a%';

SELECT \* FROM Worker

WHERE FIRST\_NAME LIKE '\_\_\_\_\_h' AND LENGTH(FIRST\_NAME) = 6;

SELECT \* FROM Worker

WHERE SALARY BETWEEN 100000 AND 500000;

SELECT \* FROM Worker

WHERE YEAR(JOINING\_DATE) = 2014 AND MONTH(JOINING\_DATE) = 2;

SELECT COUNT(\*) AS Admin\_Employees

FROM Worker

WHERE DEPARTMENT = 'Admin';

SELECT FIRST\_NAME, LAST\_NAME

FROM Worker

WHERE SALARY BETWEEN 50000 AND 100000;

SELECT DEPARTMENT, COUNT(\*) AS NumberOfWorkers

FROM Worker

GROUP BY DEPARTMENT

ORDER BY NumberOfWorkers DESC;

SELECT MAX(SALARY) AS Second\_Highest\_Salary

FROM Worker

WHERE SALARY < (

SELECT MAX(SALARY)

FROM Worker

);

SELECT \* FROM Worker

WHERE WORKER\_ID = 1

UNION ALL

SELECT \* FROM Worker

WHERE WORKER\_ID = 1;

SELECT DEPARTMENT

FROM Worker

GROUP BY DEPARTMENT

HAVING COUNT(\*) < 3;

SELECT DEPARTMENT, COUNT(\*) AS Num\_Employees

FROM Worker

GROUP BY DEPARTMENT;

SELECT DISTINCT SALARY

FROM Worker

ORDER BY SALARY DESC

LIMIT 3;