-----------------------------1------------------------------------

CREATE TABLE Worker (

WORKER\_ID int IDENTITY(1,1) PRIMARY KEY,

FIRST\_NAME varchar(25),

LAST\_NAME varchar(25),

SALARY INT,

JOINING\_DATE DATETIME,

DEPARTMENT CHAR(25)

);

INSERT INTO Worker

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

( 'Monika', 'Arora', 100000, '2022-02-14', 'HR'),

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

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

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

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

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

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

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

---------------------------------------------2-----------------------------------

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'),

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

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

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

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

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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');

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Q-1. Write an SQL query to fetch “FIRST\_NAME” from Worker table using the alias name as <WORKER\_NAME>.

Ans: Select FIRST\_NAME AS WORKER\_NAME from Worker;

Q-2. Write an SQL query to fetch “FIRST\_NAME” from Worker table in upper case.

Ans: SELECT UPPER(FIRST\_NAME) from Worker;

Q-3. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

Ans: select distinct DEPARTMENT from Worker;

Q-4. Write an SQL query to find the position of the alphabet (‘a’) in the first name column ‘Amitabh’ from Worker table.

Ans: Select CHARINDEX('a','Amitabh') from Worker where FIRST\_NAME = 'Amitabh';

Q-5. Write an SQL query that fetches the unique values of DEPARTMENT from Worker table and prints its length.

Ans: select COUNT(distinct(DEPARTMENT)) from Worker;

Q-6. Write an SQL query to print details of the Workers whose FIRST\_NAME ends with ‘a’.

Ans: Select \* from Worker where FIRST\_NAME LIKE '%a';

Q-7. Write an SQL query to print details of the Workers whose SALARY lies between 100000 and 500000.

Ans: Select \* from Worker where SALARY between 100000 and 500000;

Q-8. Write an SQL query to print details of the Workers who have joined in Feb’2014.

Ans: Select \* from Worker where year(JOINING\_DATE) = 2014 and month(JOINING\_DATE) = 2;