

SQL Task 1

- Software used: MySQL workbench
- Create a new database name as library_db

```
Create database library_db ;  
  
Use library_db ;
```

- Create a table name as employees

```
CREATE TABLE employees (  
    emp_id INT,  
    emp_name VARCHAR(20),  
    position VARCHAR(20),  
    Salary INT,  
    branch_id INT PRIMARY KEY  
);
```

Now we are going to insert some values in given table

```
Insert into employees  
( emp_id , emp_name , position , Salary , branch_id)  
Values  
(102 , "Jane Smith" , "Clerk" , 45000 , 002),  
(103 , "Mike Johnson" ,"Librarian" , 55000 , 003),  
(104 , "Emily Davis" , "Assistant" , 40000 , 004),  
(105 , "Sarah Brown" , "Assistant" , 42000 , 005);
```

Now we will find the total of salary.

```
SELECT sum(salary) AS total_salary  
FROM employees ;
```

Outcome

Result Grid	
	total_salary
▶	182000

Now we will find maximum with employee's name.

```
SELECT
    emp_name, MAX(salary) AS maximum_salary
FROM
    employees
GROUP BY emp_name
ORDER BY maximum_salary ASC;
```

Now we will find count of employees

```
SELECT
    emp_name, COUNT(emp_id) AS total_count
FROM
    employees
GROUP BY emp_name;
```

- Create another table as branch

```
CREATE TABLE branch (
    manager_id INT,
    branch_address VARCHAR(250),
    contact_no NUMERIC,
    branch_id INT,
    FOREIGN KEY (branch_id)
        REFERENCES employees (branch_id)
);
```

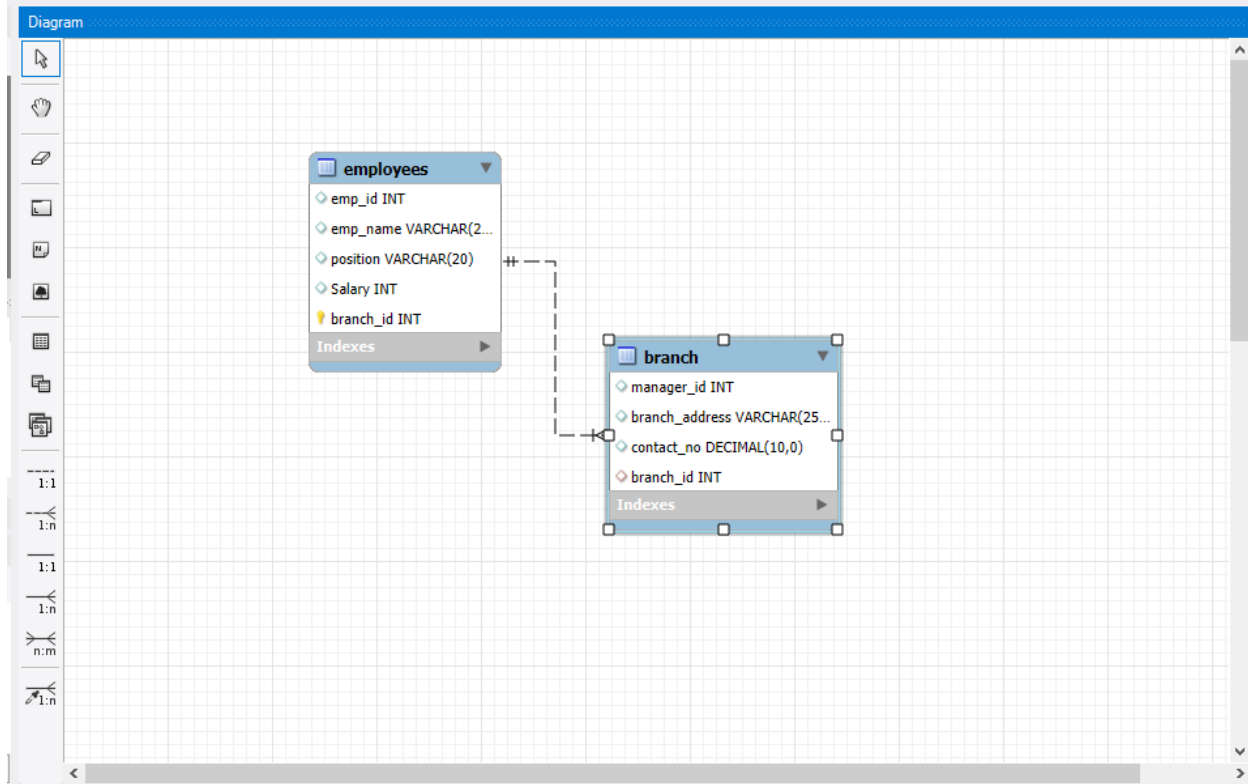
- Primary key in the given tables

```
branch_id INT PRIMARY KEY
```

- Foreign key in the given tables

```
branch_id INT,
FOREIGN KEY (branch_id)
    REFERENCES employees (branch_id)
```

- ER Diagram for the given tables



- Schema

```

Create database library_db ;

• Use library_db ;

• CREATE TABLE employees (
    emp_id INT,
    emp_name VARCHAR(20),
    position VARCHAR(20),
    Salary INT,
    branch_id INT PRIMARY KEY
);

• CREATE TABLE branch (
    manager_id INT,
    branch_address VARCHAR(250),
    contact_no NUMERIC,
    branch_id INT,
    FOREIGN KEY (branch_id)
        REFERENCES employees (branch_id)
);

```