

DATABASE MANAGEMENT SYSTEMS

Course Code: CSE2007

Slot: L13+L14

Class Number: AP2023246000686

Venue: CB-102

Assignment No.: 01

Date: 20-01-2004

Reg. No: 22BCE8587

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School & Programme:

Instructions

1. Submit Your Assignment in following link. [Click Here](https://forms.gle/V9NfLWdHgdHWpiqJA) or <https://forms.gle/V9NfLWdHgdHWpiqJA>
2. Submit Assignment in PDF format.
3. Submit assignment on or before: 20/JAN/2024.
4. Copy the code and take picture of output and paste in word document. Convert the word doc into PDF and submit.
5. File name will be your registration number and name.
6. **Assignments Programs:**

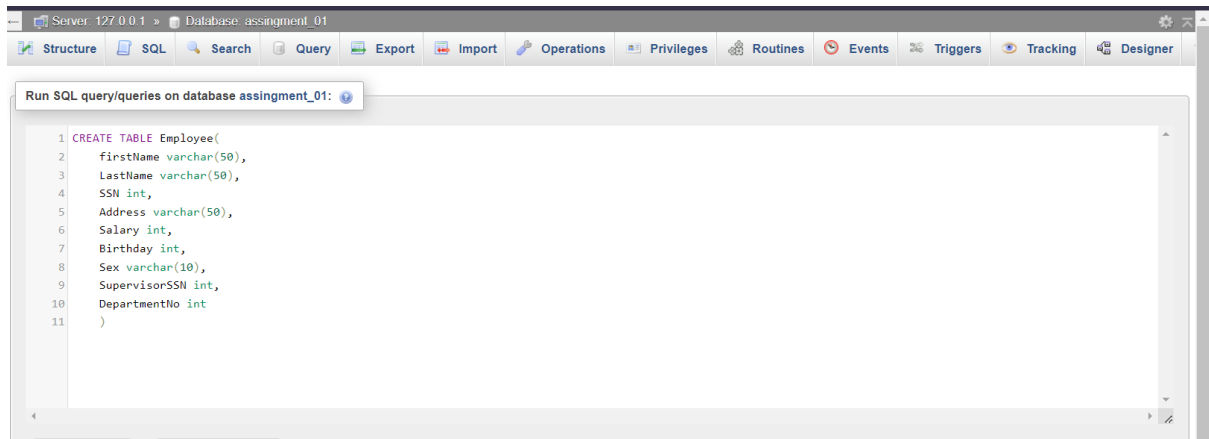
Solve the following using machine learning techniques

A.	Create Table Employee with attributes firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, DepartmentNo.
B.	Create a Table Department with attributes DNo, DNAME, ManagerSSN, MgrStartDate.
C.	Insert the data given above in both employee, department and project tables.
D.	Display all the employees' information.
E.	Display Employee name along with his SSN and Supervisor SSN.
F.	Display the employee names whose bdate is '29-MAR-1959'.
G.	Display salary of the employees without duplications.
H.	Display the MgrSSN, MgrStartDate of the manager of 'Finance' department.

Program No: A

Title : Create Table Employee with attributes firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, DepartmentNo.

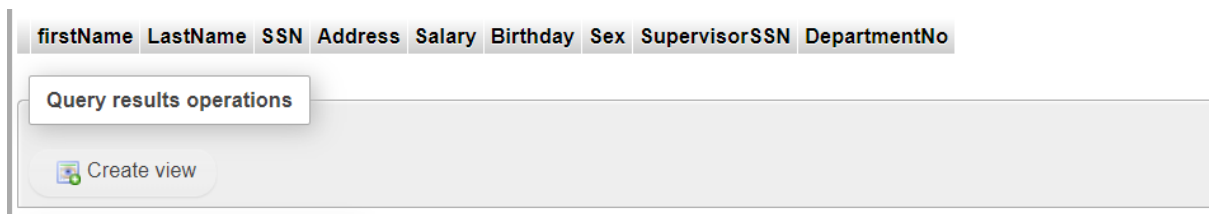
CODE:



The screenshot shows a SQL IDE window titled "Server: 127.0.0.1" and "Database: assignment_01". The menu bar includes Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, Triggers, Tracking, and Designer. A tab labeled "Run SQL query/queries on database assignment_01:" is active. The SQL editor contains the following code:

```
1 CREATE TABLE Employee(  
2     firstName varchar(50),  
3     LastName varchar(50),  
4     SSN int,  
5     Address varchar(50),  
6     Salary int,  
7     Birthday int,  
8     Sex varchar(10),  
9     SupervisorSSN int,  
10    DepartmentNo int  
11 )
```

Output:



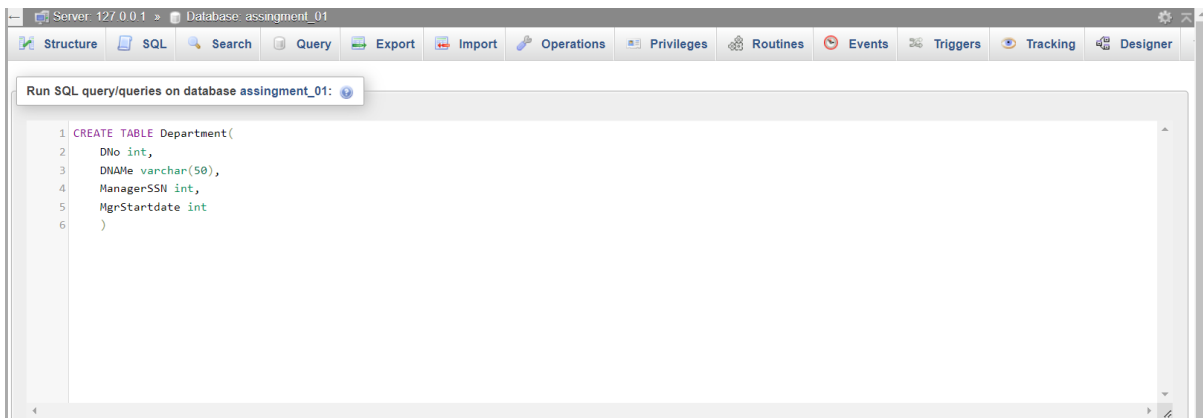
The screenshot shows the output of the SQL query in the IDE. The table structure is displayed with columns: firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, and DepartmentNo. Below the table structure, there is a button labeled "Query results operations" and a button labeled "Create view".

firstName	LastName	SSN	Address	Salary	Birthday	Sex	SupervisorSSN	DepartmentNo
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Program No: B

Title: Create a Table Department with attributes DNo, DNAME, ManagerSSN, MgrStartdate.

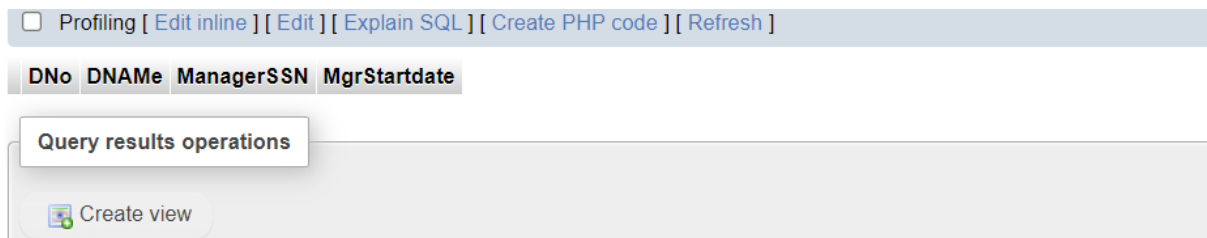
CODE:



The screenshot shows the MySQL Workbench interface. The title bar indicates the server is '127.0.0.1' and the database is 'assingment_01'. The menu bar includes Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, Triggers, Tracking, and Designer. The main window displays a SQL query to create a table named 'Department' with the following schema:

```
1 CREATE TABLE Department(  
2   DNo int,  
3   DName varchar(50),  
4   ManagerSSN int,  
5   MgrStartDate int  
6 )
```

Output:

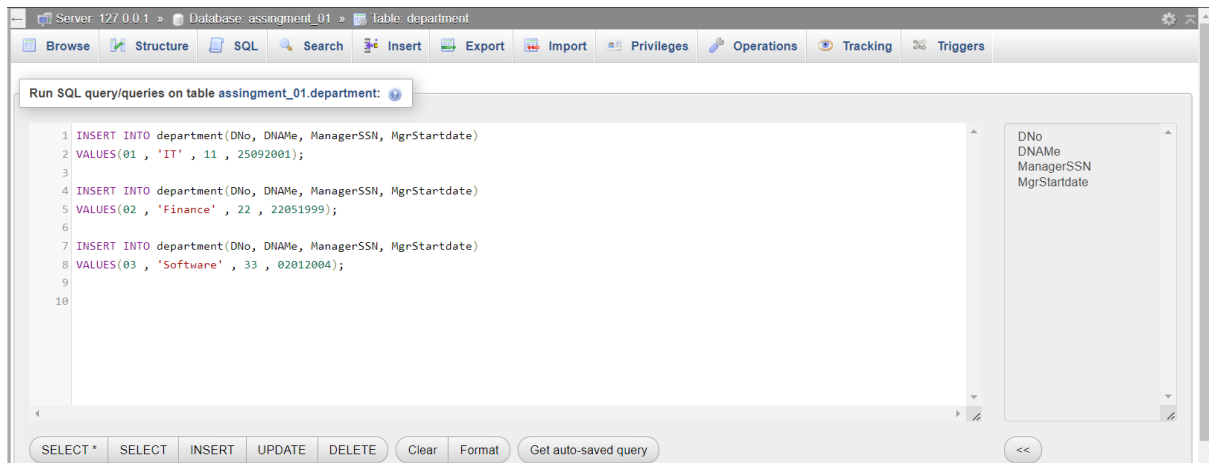


The screenshot shows the output of the SQL query. At the top, there is a toolbar with buttons for Profiling, Edit inline, Edit, Explain SQL, Create PHP code, and Refresh. Below the toolbar, the query results are displayed in a table with the following columns: DNo, DName, ManagerSSN, and MgrStartDate. Below the table, there is a button labeled 'Query results operations' and a button labeled 'Create view'.

Program No: C

Title: Insert the data given above in both employee, department and project tables.

CODE:



```
1 INSERT INTO department(DNo, DNAME, ManagerSSN, MgrStartdate)
2 VALUES(01, 'IT', 11, 25092001);
3
4 INSERT INTO department(DNo, DNAME, ManagerSSN, MgrStartdate)
5 VALUES(02, 'Finance', 22, 22051999);
6
7 INSERT INTO department(DNo, DNAME, ManagerSSN, MgrStartdate)
8 VALUES(03, 'Software', 33, 02012004);
9
10
```



```
1 INSERT INTO employee(firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, DepartmentNo)
2 VALUES('Aryan', 'Dilore', 01, 'Delhi', 1500000, 18062004, 'M', 11, 111);
3
4 INSERT INTO employee(firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, DepartmentNo)
5 VALUES('Aditya', 'Singh', 02, 'Bilaspur', 1505000, 10092003, 'M', 22, 222);
6
7 INSERT INTO employee(firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, DepartmentNo)
8 VALUES('Gourab', 'Choudhary', 03, 'Bangladesh', 1500500, 06022004, 'M', 33, 333);
9
10 INSERT INTO employee(firstName, LastName, SSN, Address, Salary, Birthday, Sex, SupervisorSSN, DepartmentNo)
11 VALUES('Abhishek', 'Singh', 04, 'Bihar', 1500500, 30122003, 'M', 44, 444);
12
```

Output:

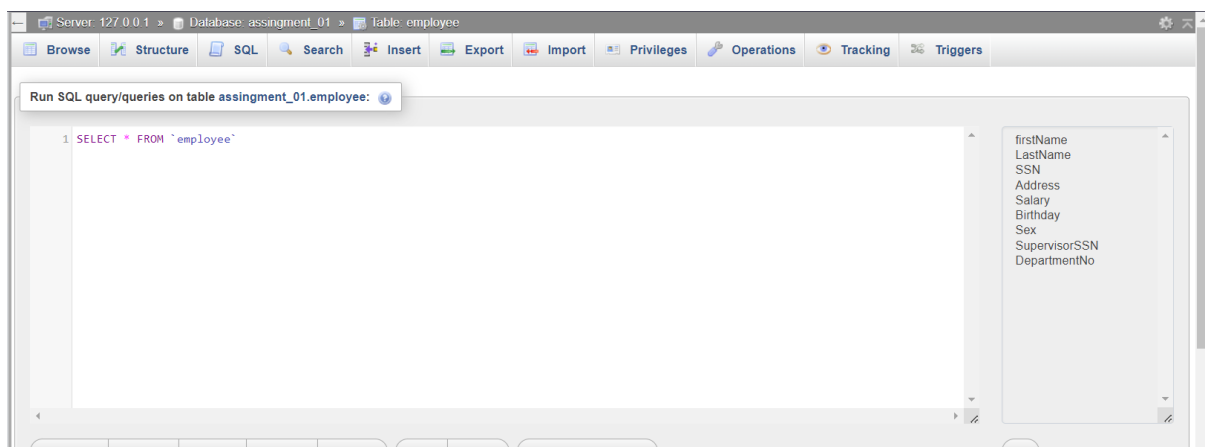
DNo	DNAME	ManagerSSN	MgrStartdate
1	IT	11	25092001
2	Finance	22	22051999
3	Software	33	2012004

firstName	LastName	SSN	Address	Salary	Birthday	Sex	SupervisorSSN	DepartmentNo
Aryan	Dilore	1	Delhi	1500000	18062004	M	11	111
Aditya	Singh	2	Bilaspur	1505000	10092003	M	22	222
Gourab	Choudhary	3	Bangladesh	1500500	6022004	M	33	333
Abhishek	Singh	4	Bihar	1500500	30122003	M	44	444

Program No: D

Title: Display all the employees' information.

CODE:



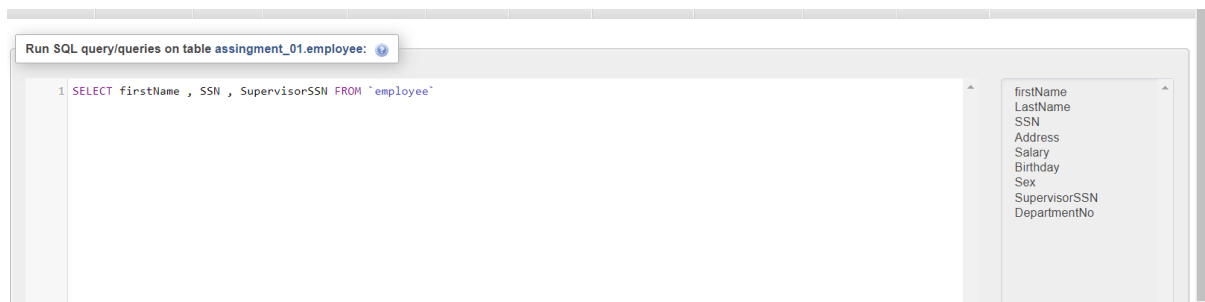
OUTPUT:

firstName	LastName	SSN	Address	Salary	Birthday	Sex	SupervisorSSN	DepartmentNo
Aryan	Dilore	1	Delhi	1500000	18062004	M	11	111
Aditya	Singh	2	Bilaspur	1505000	10092003	M	22	222
Gourab	Choudhary	3	Bangladesh	1500500	6022004	M	33	333
Abhishek	Singh	4	Bihar	1500500	30122003	M	44	444

Program No: E

TITLE : Display Employee name along with his SSN and Supervisor SSN.

CODE:



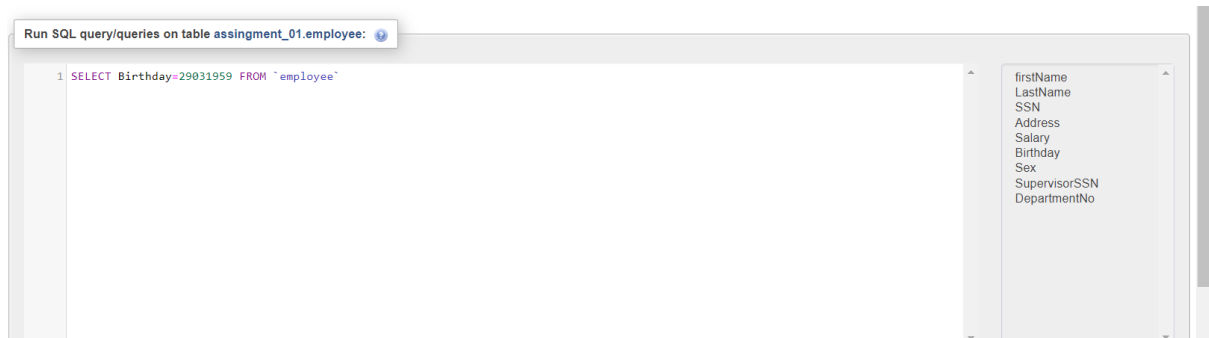
OUTPUT:

firstName	SSN	SupervisorSSN
Aryan	1	11
Aditya	2	22
Gourab	3	33
Abhishek	4	44

PROGRAM NO. : F

TITLE: Display the employee names whose bdate is '29-MAR-1959'.

CODE:



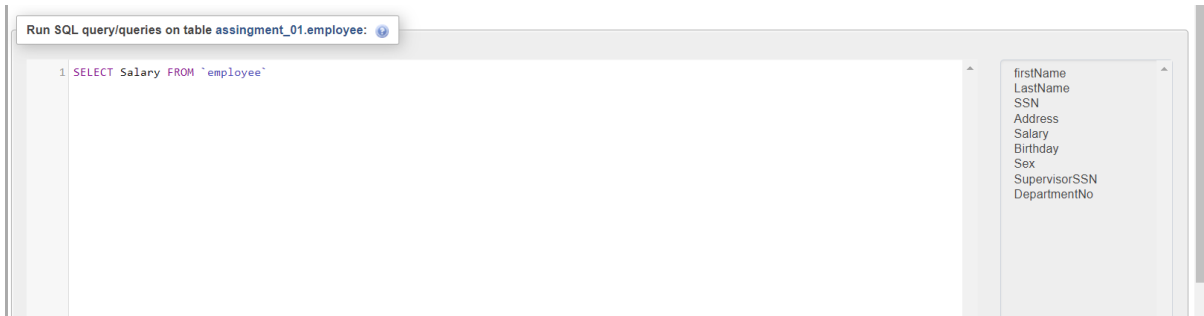
OUTPUT:

Birthday=29031959	
	0
	0
	0
	0

PROGRAM NO. : G

TITLE : Display salary of the employees without duplications.

CODE :



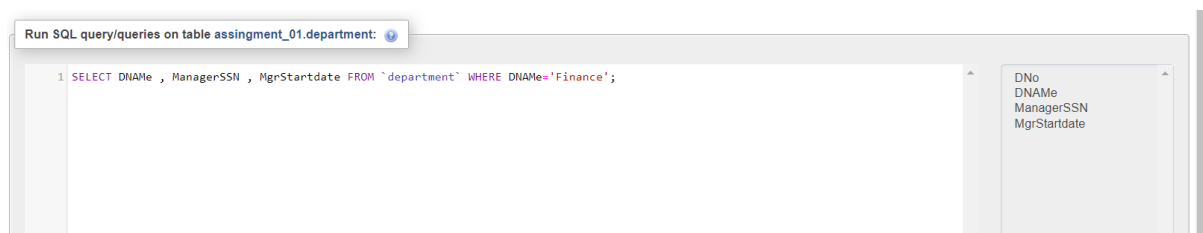
OUTPUT:

Salary
1500000
1505000
1500500
1500500

PROGRAM NO. : H

TITLE : Display the MgrSSN, MgrStartDate of the manager of 'Finance' department.

CODE:



OUTPUT:

DNAME	ManagerSSN	MgrStartdate
Finance	22	22051999