

ASSIGNMENT

DBMS Lab

February 15, 2021

Arnav Dixit

191112034, CSE-1

Company Database Queries



Computer Science Department
MANIT, Bhopal

Contents

1. Query 1	2
1.1. Source Code	2
1.2. Output	2
2. Query 2	3
2.1. Source Code	3
2.2. Output	3
3. Query 3	4
3.1. Source Code	4
3.2. Output	4
4. Query 4	5
4.1. Source Code	5
4.2. Output	5
5. Query 5	6
5.1. Source Code	6
5.2. Output	6
6. Query 6	7
6.1. Source Code	7
6.2. Output	7

1. Query 1

Get the name of employees who earn a salary of more than 30000\$.

1.1. Source Code

```
select Fname, Minit, Lname from employee
where Salary > 30000;
```

1.2. Output

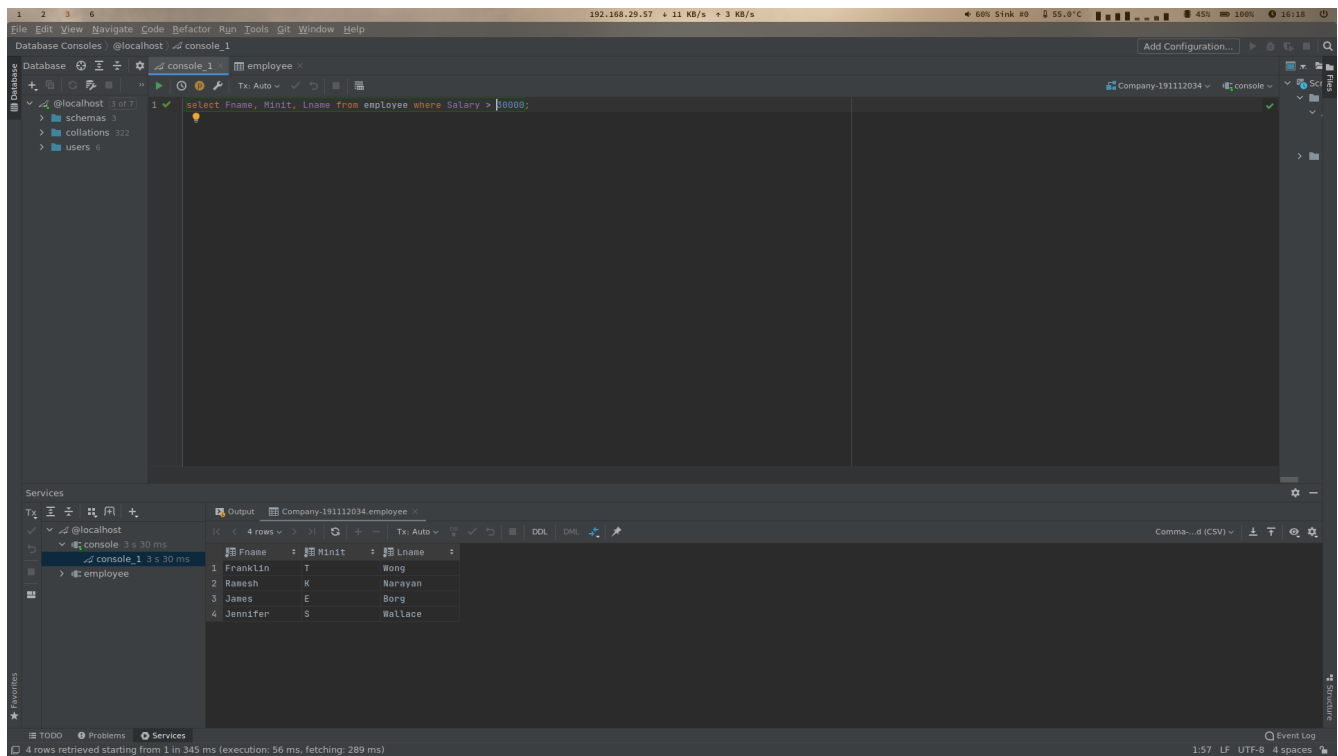


Figure 1: Query 1

2. Query 2

Get the name of the employee whose last name begins with 'W'

2.1. Source Code

```
select Fname, Minit, Lname from employee
where Lname like 'W%';
```

2.2. Output

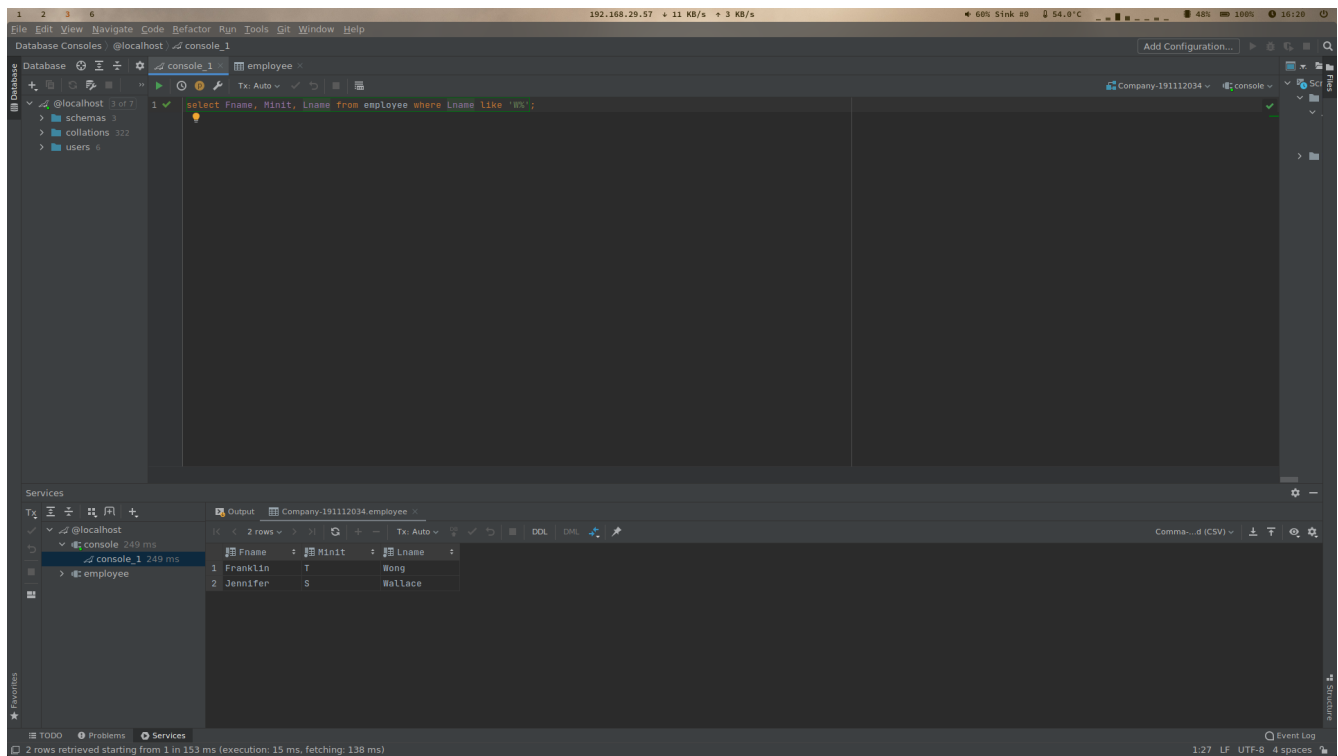


Figure 2: Query 2

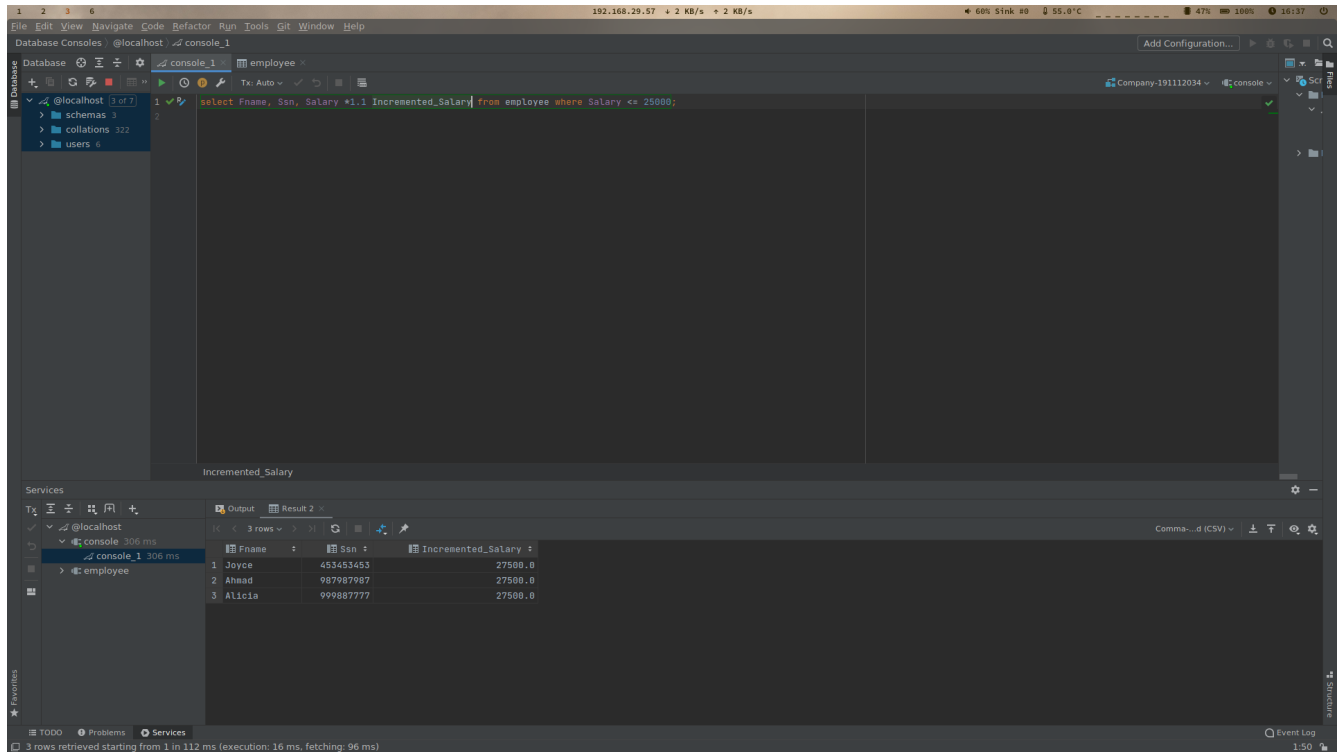
3. Query 3

If the Company wants to give increment to those employees who earn less than or equal to 25000\$ by 10%, then get the incremented amount of salary.

3.1. Source Code

```
select Fname, Ssn, Salary *1.1 Incremented_Salary from employee
where Salary <= 25000;
```

3.2. Output



The screenshot shows a database IDE with a SQL query editor and an output window. The query is: `select Fname, Ssn, Salary *1.1 Incremented_Salary from employee where Salary <= 25000;`. The output window displays the results of the query, showing three rows of data. The columns are Fname, Ssn, and Incremented_Salary. The data is as follows:

	Fname	Ssn	Incremented_Salary
1	Joyce	453453453	27500.0
2	Ahmad	987987987	27500.0
3	Alicia	999887777	27500.0

Figure 3: Query 3

4. Query 4

Get the department number whose belongs to a location that name end with 'D'

4.1. Source Code

```
select Dnumber from dept_locations
where Dlocation like '%D';
```

4.2. Output

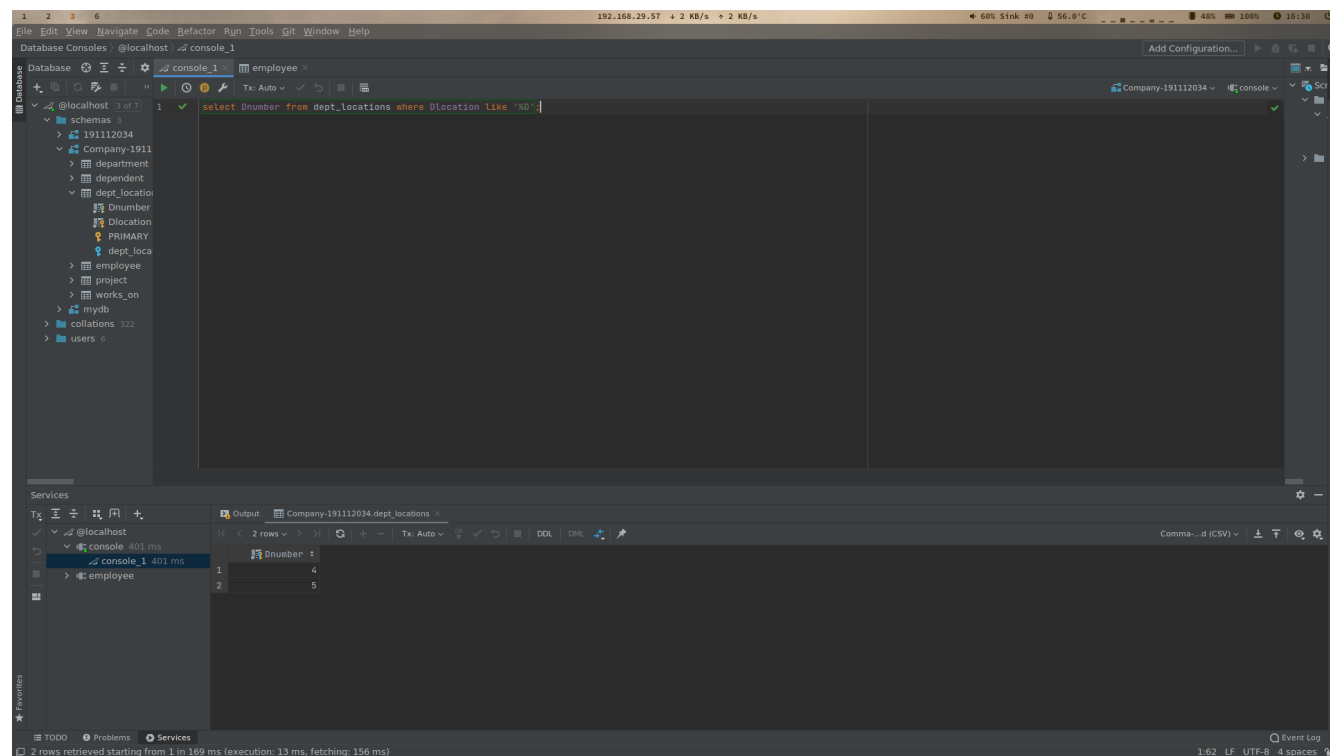


Figure 4: Query 4

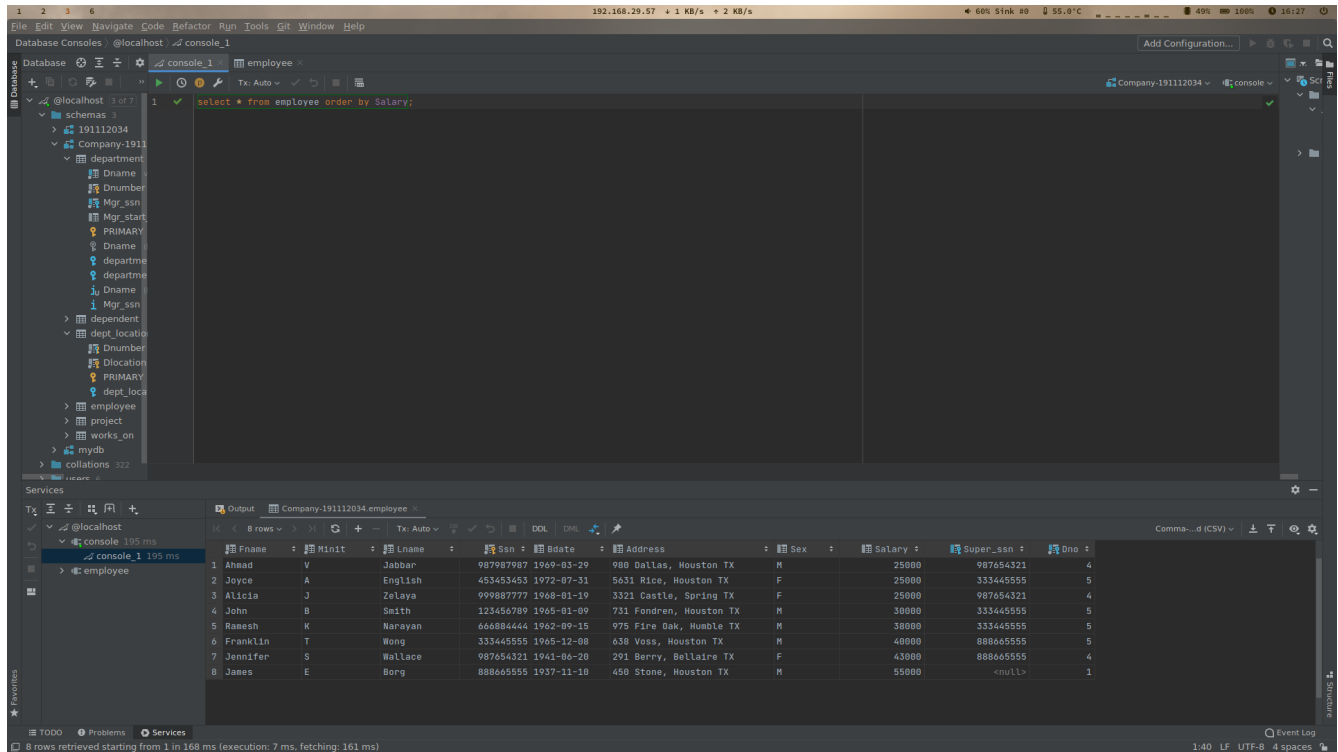
5. Query 5

Get the detail of employee in sorted form according to their salary in increasing order.

5.1. Source Code

```
select * from employee order by Salary;
```

5.2. Output



The screenshot shows an IDE with a SQL query editor and an output window. The query is `select * from employee order by Salary;`. The output window displays the results of the query, which are 8 rows of employee data sorted by salary in ascending order.

Fname	Minit	LName	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
Ahmad	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston TX	M	25000	987654321	4
Joyce	A	English	453453453	1972-07-31	5631 Rice, Houston TX	F	25000	333445555	5
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring TX	F	25000	987654321	4
John	B	Smith	123456789	1965-01-09	731 Fondren, Houston TX	M	30000	333445555	5
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble TX	M	30000	333445555	5
Franklin	T	Wong	333445555	1965-12-08	638 Voss, Houston TX	M	40000	888665555	5
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire TX	F	43000	888665555	4
James	E	Borg	888665555	1937-11-10	450 Stone, Houston TX	M	55000	<null>	1

Figure 5: Query 5

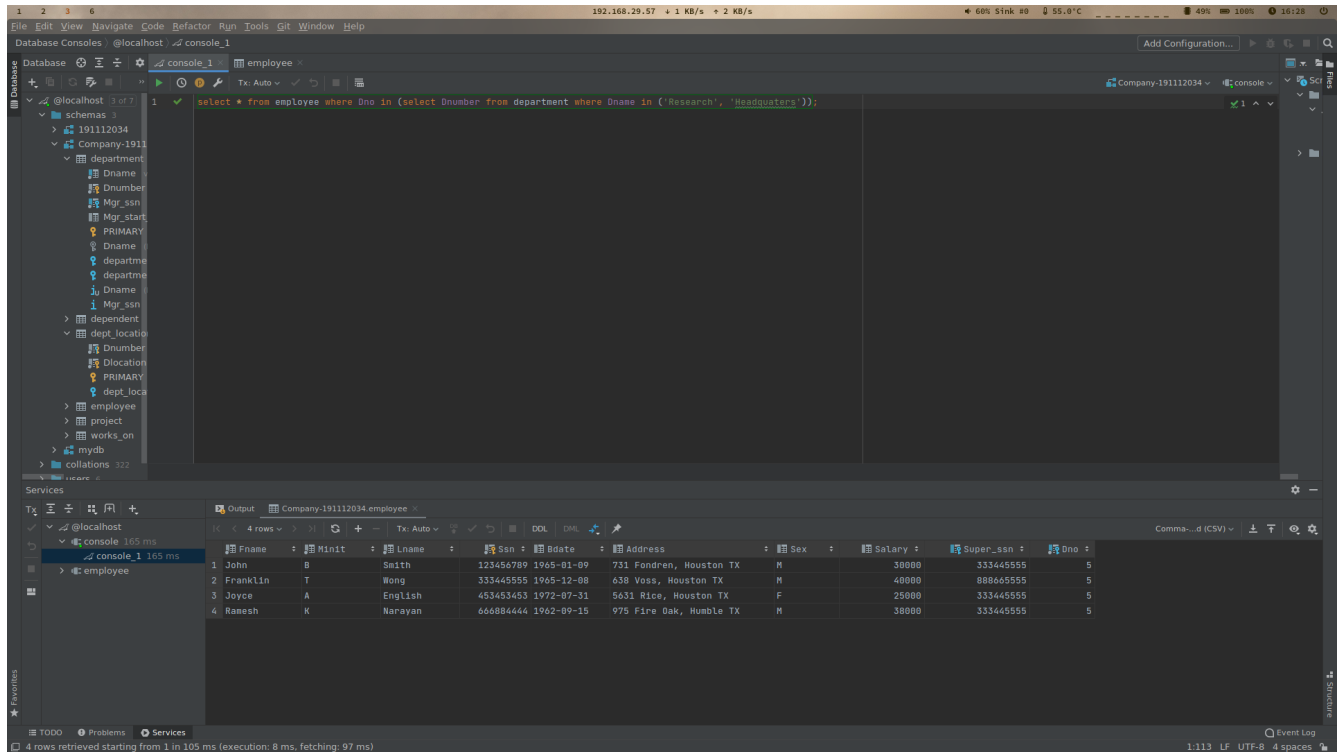
6. Query 6

Get the details of employee who works in the headquarters or research department. (By using IN clause)

6.1. Source Code

```
select * from employee
  where Dno in (select Dnumber from department
               where Dname in ('Research', 'Headquaters'));
```

6.2. Output



The screenshot shows a database IDE with the following components:

- Database Explorer:** Shows a tree view of the database schema, including tables like department, employee, and project.
- Query Editor:** Contains the SQL query: `select * from employee where Dno in (select Dnumber from department where Dname in ('Research', 'Headquaters'));`
- Output Panel:** Displays the results of the query execution. It shows 4 rows of data for the employee table.

	Fname	Minit	LName	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
1	John	B	Smith	123456789	1965-01-09	731 Fondren, Houston TX	M	30000	333445555	5
2	Franklin	T	Wong	333445555	1965-12-08	638 Voss, Houston TX	M	40000	888665555	5
3	Joyce	A	English	453453453	1972-07-31	5631 Rice, Houston TX	F	25000	333445555	5
4	Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble TX	M	38000	333445555	5

Figure 6: Query 6