LAB REPORT # 03



DEPARTMENT OF SOFTWARE ENGINEERING

Submitted To MAM ASMA ZAHRA

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SECTION#A

ID: NUML-S21-21490

Subject: DATABASE MANAGEMENT SYSTEM

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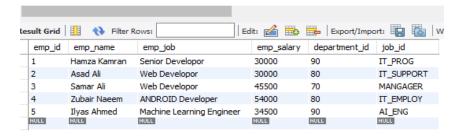
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Restricting using where clause and Sorting Data using order by clause and comparison operators:

Objectives:

- To limit the rows that are retrieved by a query
- To sort the rows that are retrieved by a query
- To use ampersand substitution to restrict and sort output at run time
- The selected table where we perform clause and operations on it





• Where clause in which we perform different comparison operators to perform a query

Operator	Meaning			
BETWEEN AND	Between two values inclusive			
IN list	Match any of a list of values			
LIKE	Match a character pattern			
IS NULL	Is a null value			

```
1 •
        SELECT *
 2
        FROM record.record
        where department id = 90 ;
 4
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  emp_id emp_name
                       emp_job
                                             emp_salary
                                                       department_id
                                                                    job_id
         Hamza Kamran
                      Senior Developor
                                            30000
                                                       90
                                                                    IT_PROG
         Ilyas Ahmed
                      Machine Learning Engineer
                                            34500
                                                                    AI_ENG
 NULL
                      NULL
                                            NULL
                                                       NULL
                                                                    NULL
```

• 'Greater than equals' operator

```
1 • SELECT *
2 FROM record.record
3 where emp_salary>=40000;
4
```



• 'Between and ' operator

```
1 • SELECT *
2 FROM record.record
3 where emp_salary between 20000 and 40000;
4
```



'In' operator

```
1 • SELECT *
2 FROM record.record
3 where emp_id in(1,4);
4
```



• 'Like' operator

```
1 • SELECT *
2 FROM record.record
3 where emp_name like"i%";
4
```



• 'Like' operator with two wildcards

```
1 • SELECT *
2 FROM record.record
3 where emp_name like"_a%";
4
```



• 'is null' operator

```
1 • SELECT *
2 FROM record.record
3 where emp_name is null;
4
```

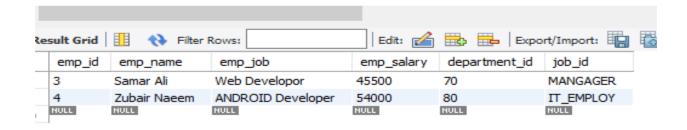


• 'and' operator

Result Grid 1							Wr
	emp_id	emp_name	emp_job	emp_salary	department_id	job_id	
	2	Asad Ali	Web Developor	30000	80	IT_SUPPORT	
	4	Zubair Naeem	ANDROID Developer	54000	80	IT_EMPLOY	
-	NULL	NULL	NULL	NULL	NULL	NULL	

• 'or' operator

```
1 • SELECT *
2 FROM record.record
3 where emp_salary >40000 or department_id = 100;
4
```

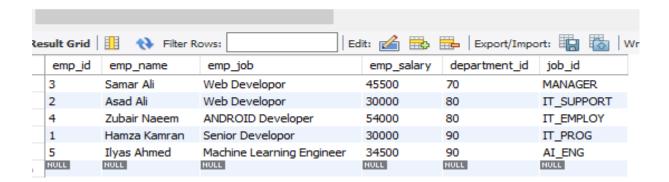


• 'not in' operator

```
1    SELECT *
2    FROM record.record
3    where job_id not in ('MANAGER');
4
```



• 'Order by' operator is used for sorting by default order is ascending



• 'order by 'operator in descending order

```
1 • SELECT *
2 FROM record.record
3 ORDER BY department_id desc;
4
```

