

DATABASE SYSTEM LAB MANUAL

Assignment 02



Submitted By:

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CIIT/FA22-BCS-203/SWL(4-B)

Submitted To:

Sir Tahir Khalil

DATE: MARCH 27, 2024

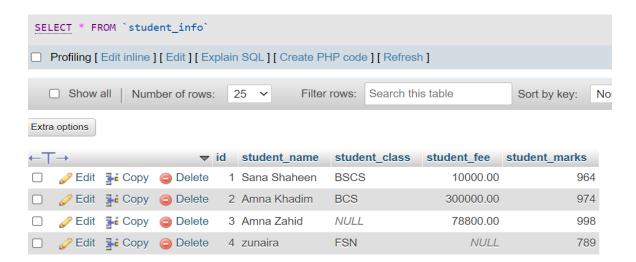
• LAB TASK 1:

In this lab, we learn how to create database and table and also learn how to insert data in a table.

For create database: CREATE DATABASE Student;
For create Table: CREATE Table student_info(id int primary key,student_name varchar(20),student_class varchar(10),student_fee numeric(2),student_marks int NOT NULL);

For insert data:

- 1- INSERT into student info
- (id,student_name,student_class,student_fee,student_marks) values(1,'Sana Shaheen', 'BSCS', '10000', 964);
- 2- INSERT into student_info
- (id,student_name,student_class,student_fee,student_marks) values(2,'Amna Khadim', 'BCS', '300000', 974);
- 3- INSERT into student info
- (id,student_name,student_class,student_fee,student_marks) values(3,'Amna Zahid', '78800', 998);
- 4- INSERT into student_info
- (id,student_name,student_class,student_fee,student_marks) values(4,'zunaira', 'FSN',789);



• LAB TASK 2:

Query 1: SELECT *(fetch all data):

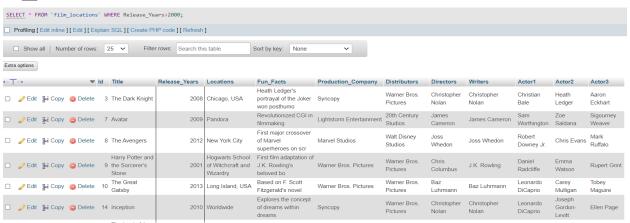
1 SELECT * FROM `film_locations`;
2 |



Query 2: SELECT * FROM TABLE WHERE CONDITION (specific data fetch according to condition)

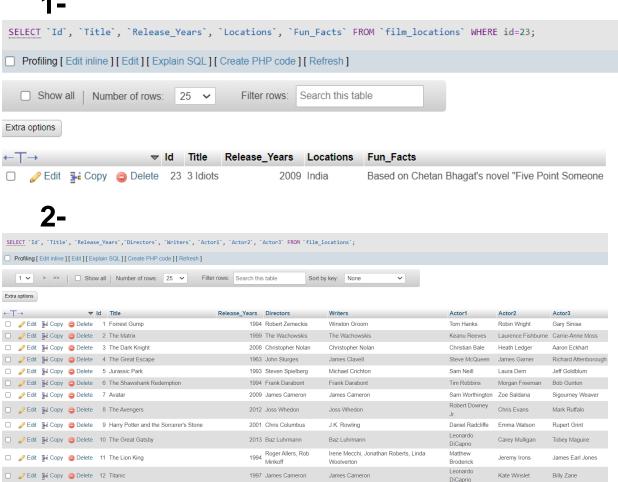
1-





SELECT specific columns condition:

□ Ø Edit ♣ Copy ⊜ Delete 13 The Godfather



James Cameron

Mario Puzo, Francis Ford Coppola

1972 Francis Ford Coppola

Kate Winslet

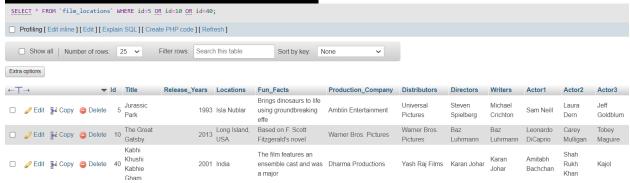
James Caan

Al Pacino

DiCaprio

Marlon Brando

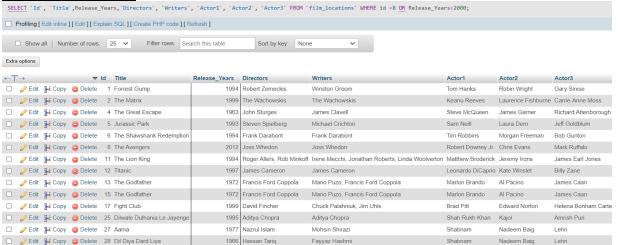
Query 4: OR Operator:



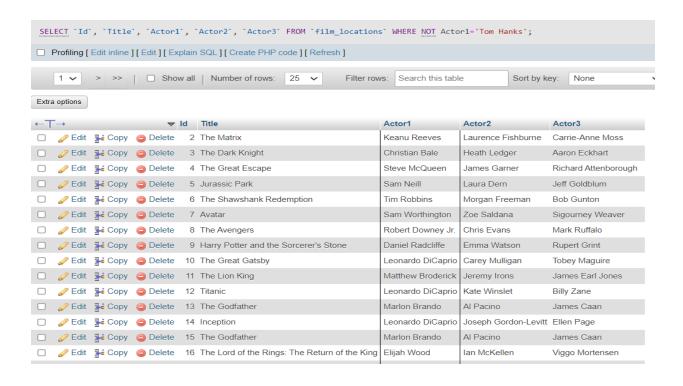
Query 5: SELECT specific column + AND Operator:



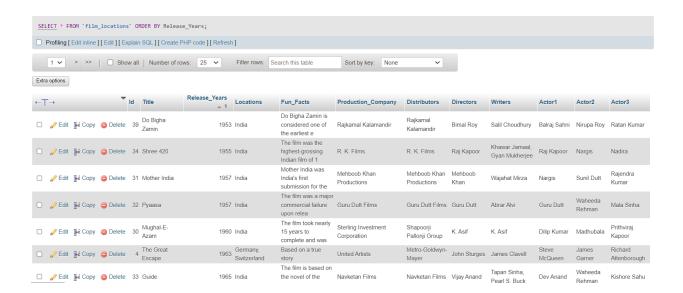
Query 6: SELECT specific column + OR Operator:



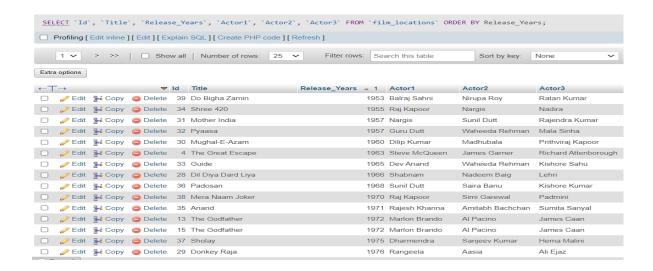
Query 7: NOT Operator:



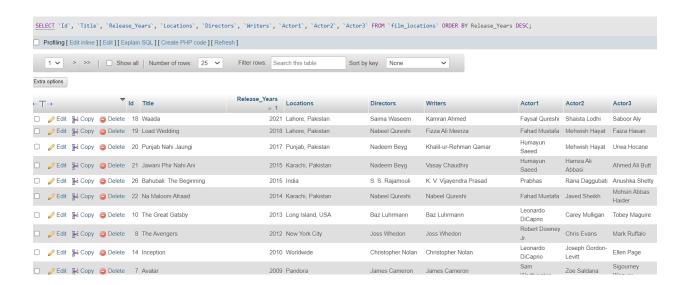
Query 8: ALL columns + ORDER BY:



Query 9: Specific columns + ORDER BY:



Query 10: Specific columns + ORDER BY in DESC:



• LAB TASK 3:

1. Count * with condition

```
SELECT COUNT(*)FROM film_locations WHERE Release_Years>2000;

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Extra options

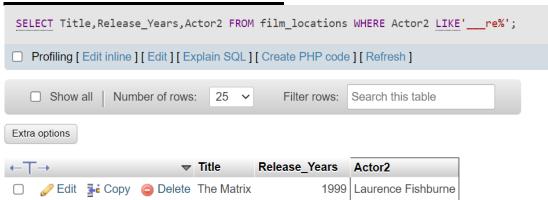
COUNT(*)

16
```

2. Count(specific column)+condition

SELECT COUNT(Locations) FROM film_locations WHERE Locations='Pakistan';
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Extra options
COUNT(Locations)
3

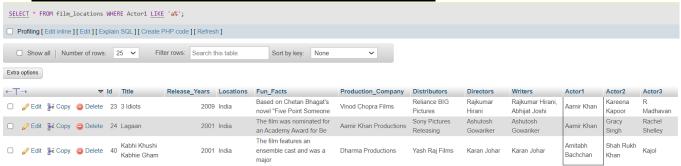
3. Like '---character%':



4. (specific Columns)+Like'character%':



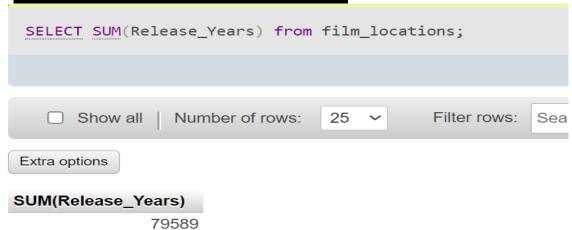
5. SELECT * +Like'character%':



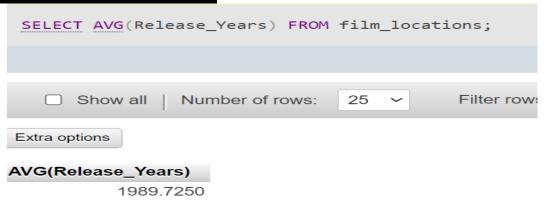
6. (specific Columns)+Like'%character%':



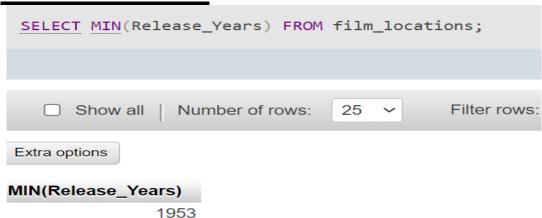
7. SUM of Integer Column:



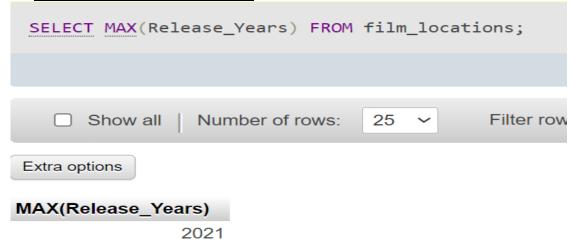
8. AVG Condition:



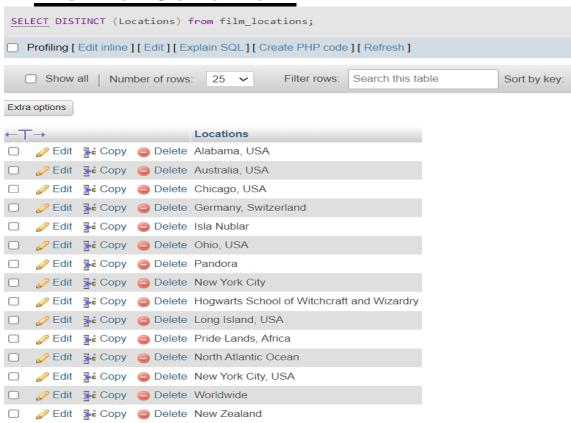
9. MIN Condition:



10. MAX Condition:



11. Distinct Condition:



12. Count+Distinct Condition

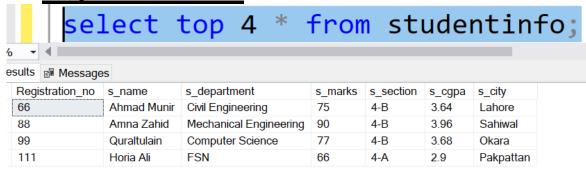
SELECT COUNT(DISTINCT Locations) from film_locations;

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

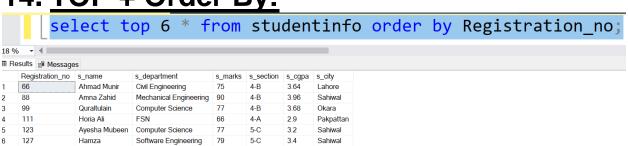
Extra options

COUNT(DISTINCT Locations)

13. Top Number *:

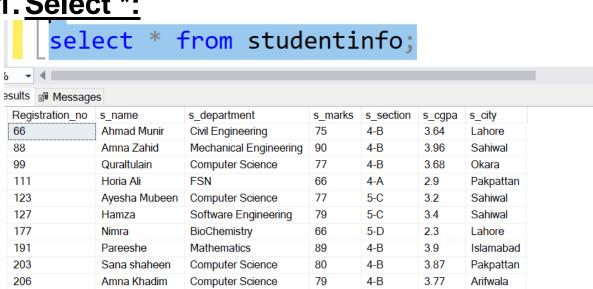


14. <u>TOP + Order By:</u>

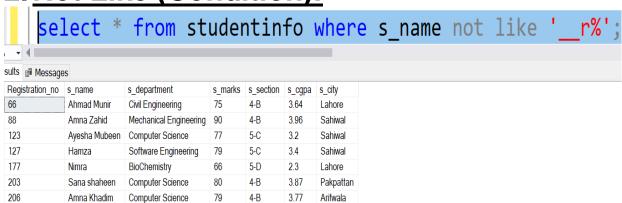


● LAB TASK 4:

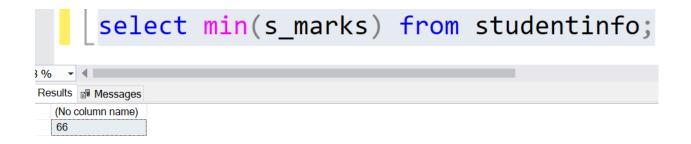
1. <u>Select *:</u>



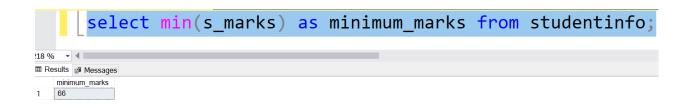
2. Not Like (Condition):



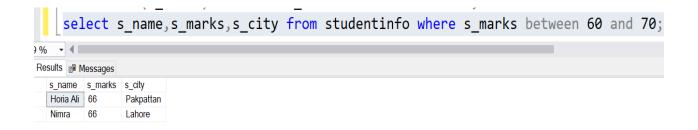
3. MIN Marks From studentinfo tabel:



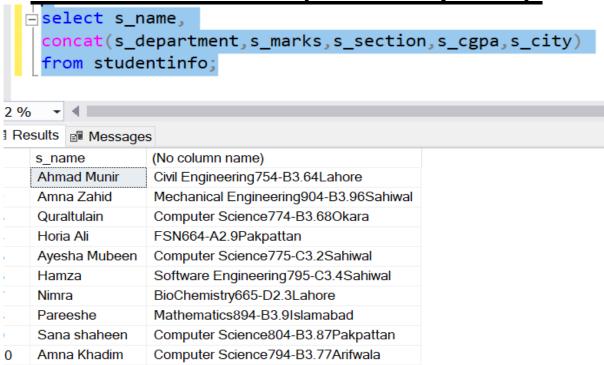
4. MIN + AS Condition:



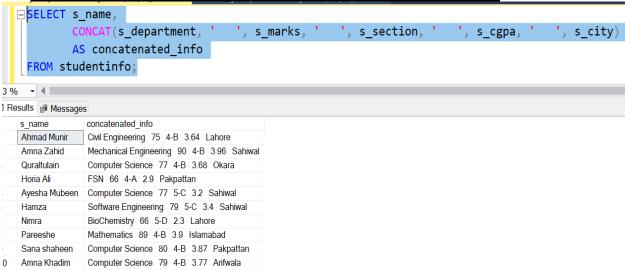
5. Range (Between Condition):



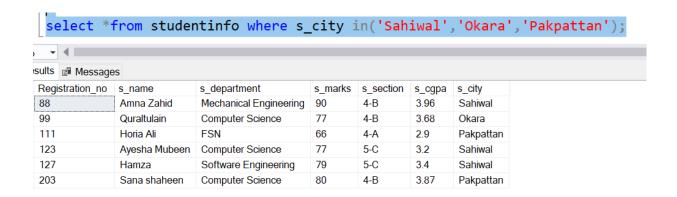
6. CONCAT Condition(without spaces):



7. CONCAT Condition(with Spaces):



8. IN for Multiple Clauses:



9. Having + COUNT +AS:

```
SELECT COUNT(Registration_no) AS registration_count,s_city
FROM studentinfo
GROUP BY s_city
HAVING COUNT(Registration_no) > 2;

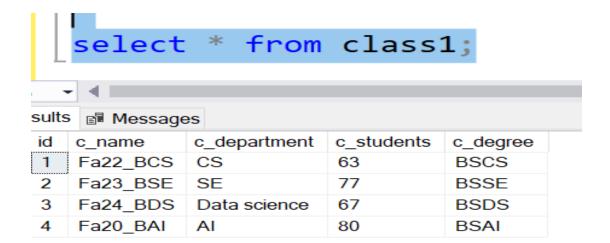
sults Messages
registration_count s_city
3 Sahiwal
```

• LAB TASK 5:

1. Create Table with name Class1:

Completion time: 2024-03-27T17:51:05.8187831+05:00

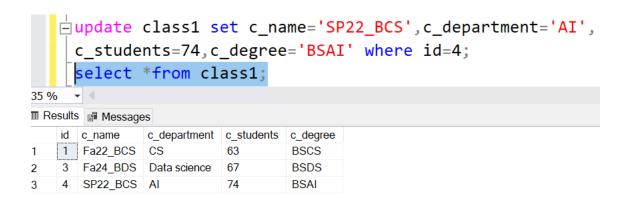
2. INSERT Data display(SELECT *):



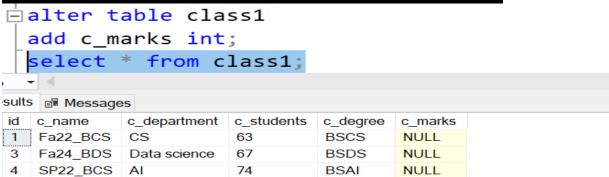
3. Delete Query:

```
select * from class1;
  delete from class1 where id=2;
sults Messages
         c_department c_students
id c_name
                               c_degree
1 Fa22_BCS CS
                       63
                                BSCS
                       67
3 Fa24_BDS Data science
                                BSDS
4 Fa20_BAI
           AI
                       80
                                BSAI
```

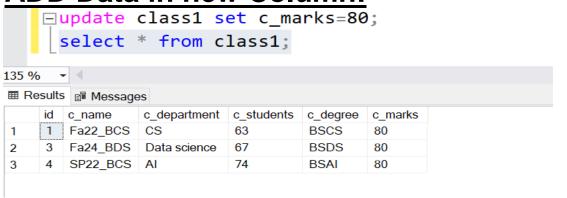
4. Update Query:



ADD New Column In Existing Table:



5. ADD Data in new Column:



6. <u>Update + Case Query:</u>

