

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Cachar, Assam

B.Tech. Vth Sem

Subject Code: CS-312

Subject Name: Database Management System

Submitted By:

Name : Subhojit Ghimire

Sch. Id. : 1912160

Branch : CSE – B

CONNECTION: 1912160_CS312 SCHEMA: assignment3 TABLES

STUDENTS

Result Grid						
	S_id	S_name	Course	City	State	Mark
▶	19DCS001	ADITYA	PH.D	BHUBANESHWAR	ODHISHA	9
	21PCS001	AJAY	M.TECH	HYDERABAD	TELENGANA	8
	21PCS005	MAHESH	M.TECH	IMPHAL	MANIPUR	7
	21UCS001	ROHIT	B.TECH	KOLKATA	WEST BENGAL	8
	21UCS002	RAHUL	B.TECH	GUWAHATI	ASSAM	8
*	NULL	NULL	NULL	NULL	NULL	NULL

TEACHERS

Result Grid				
	T_id	T_name	City	State
▶	19FCS003	AMIT	HYDERABAD	TELENGANA
	20FCS001	LALIT	CHENNAI	TAMIL NADU
	21FCS012	VENKAT	GUWAHATI	ASSAM
*	NULL	NULL	NULL	NULL

GUIDED

Result Grid					
	G_id	G_date	G_year	S_id	T_id
▶	19CS01	19-JUN-2019	2019	19DCS001	19FCS003
	21CS01	2-FEB-2021	2021	21UCS001	20FCS001
	21CS02	2-JUN-2021	2021	21UCS002	21FCS012
	21CS03	2-JUN-2021	2021	21UCS003	20FCS001
	21CS04	2-JULY-2021	2021	21PCS001	21FCS012
	21CS05	2-FEB-2021	2021	21PCS005	19FCS003
*	NULL	NULL	NULL	NULL	NULL

EMPLOYEE

Result Grid						
	ID	DEPT_ID	GENDER	NAME	SALARY	E_ID
▶	1	2	M	JOHN	1000	123
	2	4	F	BELA	2000	313
	3	3	F	KATY	2000	335
	4	1	M	RON	2000	533
	5	2	M	KEN	1000	563
	6	2	M	JOHN	2000	321
	7	4	F	TAYLOR	1000	312
	8	3	F	TAYLOR	2000	442
	9	3	M	RAZOR	1000	565
*	NULL	NULL	NULL	NULL	NULL	NULL

1. Write a select command that produces the guided id, year, and date for all rows in the Guided table.

➔ `SELECT G_id, G_year, G_date
FROM assignment3.guided;`

The screenshot shows the SQL Enterprise Manager interface. On the left, the 'SCHEMAS' pane displays a tree view with '1912160' expanded, showing 'assignment3' and its tables: 'guided', 'students', and 'teachers'. The 'guided' table is selected. The main pane shows the query: `SELECT G_id, G_year, G_date FROM assignment3.guided;`. Below the query, the 'Result Grid' displays the following data:

G_id	G_year	G_date
19CS01	2019	19-JUN-2019
21CS01	2021	2-FEB-2021
21CS02	2021	2-JUN-2021
21CS03	2021	2-JUN-2021
21CS04	2021	2-JULY-2021
21CS05	2021	2-FEB-2021
NULL	NULL	NULL

2. Write a query that produces all rows from the Guided table for which the guide id is 19FCS003.

➔ `SELECT *
FROM assignment3.guided
WHERE G_id='19FCS003';`

The screenshot shows the SQL Enterprise Manager interface. On the left, the 'SCHEMAS' pane displays a tree view with '1912160' expanded, showing 'assignment3' and its tables: 'guided', 'students', and 'teachers'. The 'guided' table is selected. The main pane shows the query: `SELECT *
FROM assignment3.guided
WHERE G_id='19FCS003';`. Below the query, the 'Result Grid' displays the following data:

G_id	G_date	G_year	S_id	T_id
NULL	NULL	NULL	NULL	NULL

3. Write a query that displays the Student table with the columns in the following order: city, s_name, state, marks_id, course.

➔ SELECT City, S_name, State, Mark, Course
FROM assignment3.students;

The screenshot shows the SQL Developer interface. On the left, the 'SCHEMAS' tree is expanded to 'assignment3', showing tables 'guided', 'students', and 'teachers'. The 'students' table is selected. The main window displays the following SQL query:

```
1 • SELECT City, S_name, State, Mark, Course
2 FROM assignment3.students;
```

Below the query, the 'Result Grid' shows the data returned by the query:

City	S_name	State	Mark	Course
BHUBANESHWAR	ADITYA	ODHISHA	9	PH.D
HYDERABAD	AJAY	TELENGANA	8	M.TECH
IMPHAL	MAHESH	MANIPUR	7	M.TECH
KOLKATA	ROHIT	WEST BENGAL	8	B.TECH
GUWAHATI	RAHUL	ASSAM	8	B.TECH

4. Write a select command that produces the mark followed by the name of each student in descending by its marks.

➔ SELECT Mark, S_name
FROM assignment3.students
ORDER BY Mark DESC;

The screenshot shows the SQL Developer interface. On the left, the 'SCHEMAS' tree is expanded to 'assignment3', showing tables 'guided', 'students', and 'teachers'. The 'students' table is selected. The main window displays the following SQL query:

```
1 • SELECT Mark, S_name
2 FROM assignment3.students
3 ORDER BY Mark DESC;
```

Below the query, the 'Result Grid' shows the data returned by the query, sorted by Mark in descending order:

Mark	S_name
9	ADITYA
8	AJAY
8	ROHIT
8	RAHUL
7	MAHESH

5. What will be the output from the following query?

Select * from GUIDED

Where (g_year>2019 OR NOT (g_date = '2-JUN-2021'));

→ GUIDED:

G_id	G_date	G_year	S_id	T_id
19CS01	19-JUN-2019	2019	19DCS001	19FCS003
21CS01	2-FEB-2021	2021	21UCS001	20FCS001
21CS02	2-JUN-2021	2021	21UCS002	21FCS012
21CS03	2-JUN-2021	2021	21UCS003	20FCS001
21CS04	2-JULY-2021	2021	21PCS001	21FCS012
21CS05	2-FEB-2021	2021	21PCS005	19FCS003

The screenshot shows the SQL Developer interface. The left pane displays the 'SCHEMAS' tree with 'assignment3' expanded, showing tables 'guided', 'students', and 'teachers'. The main pane shows the query: `SELECT * FROM assignment3.guided WHERE (G_year > 2019 OR NOT (G_date = '2-JUN-2021'));`. The 'Result Grid' shows the output of the query, which matches the table provided in the previous block.

G_id	G_date	G_year	S_id	T_id
19CS01	19-JUN-2019	2019	19DCS001	19FCS003
21CS01	2-FEB-2021	2021	21UCS001	20FCS001
21CS02	2-JUN-2021	2021	21UCS002	21FCS012
21CS03	2-JUN-2021	2021	21UCS003	20FCS001
21CS04	2-JULY-2021	2021	21PCS001	21FCS012
21CS05	2-FEB-2021	2021	21PCS005	19FCS003
NULL	NULL	NULL	NULL	NULL

6. Write a query that will give you the names and cities of all students in Assam and Delhi with marks above 7 CGPA.

→ SELECT S_name, City

FROM assignment3_students

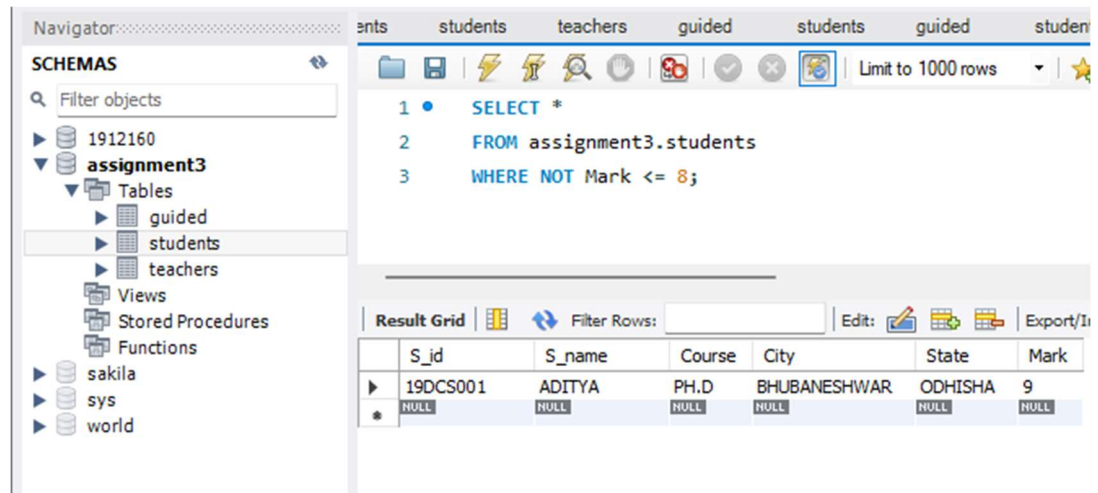
WHERE ((State = 'ASSAM' OR State = 'DELHI') AND (Mark > 7));

The screenshot shows the SQL Developer interface. The left pane displays the 'SCHEMAS' tree with 'assignment3' expanded, showing tables 'guided', 'students', and 'teachers'. The main pane shows the query: `SELECT S_name, City FROM assignment3_students WHERE ((State = 'ASSAM' OR State = 'DELHI') AND (Mark > 7));`. The 'Result Grid' shows the output of the query, which is a single row: RAHUL, GUWAHATI.

S_name	City
RAHUL	GUWAHATI

7. Write a query on the Student table whose output will exclude all students with a mark ≤ 8 .

➔ SELECT *
FROM assignment3.students
WHERE NOT Mark ≤ 8 ;



8. Write a query that will produce the name and gender of all employees (supress the duplicates) in the table given below.

EMPLOYEE

ID	DEPT_ID	GENDER	NAME	SALARY	E_ID
1	2	M	JOHN	1000	123
2	4	F	BELA	2000	313
3	3	F	KATY	2000	335
4	1	M	RON	2000	533
5	2	M	KEN	1000	563
6	2	M	JOHN	2000	321
7	4	F	TAYLOR	1000	312
8	3	F	TAYLOR	2000	442
9	3	M	RAZOR	1000	565

→ SELECT DISTINCT NAME, GENDER
FROM assignment3.employee;

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Navigator' pane displays the 'SCHEMAS' tree with 'assignment3' expanded, showing tables 'employee', 'guided', 'students', and 'teachers'. The 'employee' table is selected. On the right, the 'Query Editor' window shows a query:

```
1 • SELECT DISTINCT NAME, GENDER
2 FROM assignment3.employee;
```

Below the query, the 'Result Grid' shows the following data:

NAME	GENDER
JOHN	M
BELA	F
KATY	F
RON	M
KEN	M
TAYLOR	F
RAZOR	M

9. Write a query that will generate students names and s_id with marks ≥ 9 CGPA from the student table.

→ SELECT S_name, S_id
FROM assignment3.students
WHERE Mark ≥ 9 ;

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Navigator' pane displays the 'SCHEMAS' tree with 'assignment3' expanded, showing tables 'guided', 'students', and 'teachers'. The 'students' table is selected. On the right, the 'Query Editor' window shows a query:

```
1 • SELECT S_name, S_id
2 FROM assignment3.students
3 WHERE Mark >= 9;
```

Below the query, the 'Result Grid' shows the following data:

S_name	S_id
ADITYA	19DCS001
NULL	NULL