

# Weak -2 Assignment

## Task\_1:

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Schemas' tree with 'gnanithadb1' expanded, showing tables like 'employee'. The main pane shows a query editor with the following SQL script:

```
1 SELECT * FROM gnanithadb1.employee;
2 INSERT INTO 'gnanithadb1'.employee ('Employeeid', 'Employeename', 'Employeeage', 'Employeddept') VALUES ('2', 'sam', '25', 'IT');
3 INSERT INTO 'gnanithadb1'.employee ('Employeeid', 'Employeename', 'Employeeage', 'Employeddept') VALUES ('3', 'Gnani', '23', 'Programming');
4 UPDATE 'gnanithadb1'.employee SET 'Employeeage' = '22' WHERE ('Employeeid' = '3');
5 DELETE FROM gnanithadb1.employee where Employeeid=1;
```

The 'Result Grid' shows the following data:

Employeeid	Employeename	Employeeage	Employeddept
2	sam	25	IT
3	Gnani	22	Programming

The 'Output' pane shows the execution plan and messages. The messages indicate that the query was executed successfully, with 2 rows returned for the SELECT statement and 1 row affected for the UPDATE statement.

## Task\_2:

### Inner Join:

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Schemas' tree with 'gnanithadb1' expanded, showing tables like 'employee' and 'work'. The main pane shows a query editor with the following SQL script:

```
1 SELECT * FROM gnanithadb1.employee;
2 select employee.Employeename, employee.Employeeid, work.Employeesalary from
3 employee inner join work on employee.Employeename = work.Employeename And
4 employee.Employeeid = work.Employeeid;
```

The 'Result Grid' shows the following data:

Employeename	Employeeid	Employeesalary
sam	2	30000
Gnani	3	40000
harsha	4	45000
sunana	5	60000

The 'Output' pane shows the execution plan and messages. The messages indicate that the query was executed successfully, with 4 rows returned for the SELECT statement.

## Left Join:

The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the 'Schemas' tree with 'gnanithadb1' expanded, containing 'Tables', 'Views', 'Stored Procedures', 'Functions', and 'sys'. The 'employee' table is selected. The right pane shows the 'Query Editor' with the following SQL query:

```
1 SELECT * FROM gnanithadb1.employee;
2 select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from
3 employee left join work on employee.EmployeeName = work.EmployeeName And
4 employee.EmployeeId = work.EmployeeId;
```

The 'Result Grid' shows the following data:

EmployeeName	EmployeeId	Employeesalary
Sam	2	30000
Gnan	3	40000
harsha	4	45000
sunana	5	60000
asrith	6	70000

The 'Output' pane shows the 'Action Output' table with the following data:

#	Time	Action	Message	Duration / Fetch
1	01:30:35	SELECT * FROM gnanithadb1.employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
2	01:30:40	select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from employee inner join work on employee...	4 row(s) returned	0.016 sec / 0.000 sec
3	01:31:39	select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from employee left join work on employee E...	5 row(s) returned	0.000 sec / 0.000 sec

## Right Join:

The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the 'Schemas' tree with 'gnanithadb1' expanded, containing 'Tables', 'Views', 'Stored Procedures', 'Functions', and 'sys'. The 'employee' table is selected. The right pane shows the 'Query Editor' with the following SQL query:

```
1 SELECT * FROM gnanithadb1.employee;
2 select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from
3 employee right join work on employee.EmployeeName = work.EmployeeName And
4 employee.EmployeeId = work.EmployeeId;
```

The 'Result Grid' shows the following data:

EmployeeName	EmployeeId	Employeesalary
Sam	2	30000
Gnan	3	40000
harsha	4	45000
sunana	5	60000
asrith	6	70000

The 'Output' pane shows the 'Action Output' table with the following data:

#	Time	Action	Message	Duration / Fetch
1	01:30:35	SELECT * FROM gnanithadb1.employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
2	01:30:40	select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from employee inner join work on employee...	4 row(s) returned	0.016 sec / 0.000 sec
3	01:31:39	select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from employee left join work on employee E...	5 row(s) returned	0.000 sec / 0.000 sec
4	01:32:24	select employee.EmployeeName, employee.EmployeeId, work.Employeesalary from employee right join work on employee E...	5 row(s) returned	0.000 sec / 0.000 sec

## Mangodb code:

```
> _MONGOSH
> db.createCollection("Faculty");
< { ok: 1 }
> db.Faculty.insertOne({'Name':'Nikhil'},{'ID':'20'});
< {
  acknowledged: true,
  insertedId: ObjectId("64737deef29d513e3dd01284")
}
> show collections;
< Faculty
> db.Faculty.insertOne({'Name':'Ganesh'},{'ID':'21'});
< {
  acknowledged: true,
  insertedId: ObjectId("64737e3cf29d513e3dd01285")
}
> db.Faculty.insertOne({'Name':'Nikhil'},{'ID':'20'});
< {
  acknowledged: true,
  insertedId: ObjectId("64737ea0f29d513e3dd01286")
}
> db.Faculty.updateOne({'Name':'Nikhil'},{$set:{'ID':'22'}});
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.Faculty.deleteOne({'Name':'Nikhil'});
< {
  acknowledged: true,
  deletedCount: 1
}
> show collections
< Faculty
```

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