# **Group Daily Report**

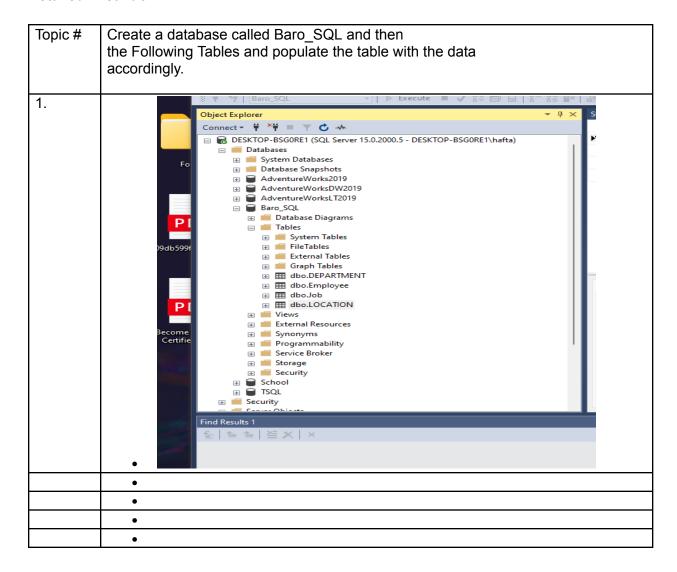
# Group Members [Group Leader at the top]

Name	
Frehiwot Mengistie	
Eliyam Wondmeneh	
Efrem Kifle	
Haftamu Molla	

# Agenda

#	Topic	Chapter
1.	Create a database called Baro_SQL and then the Following Tables and populate the table with the data accordingly.	
2.	Simple Queries	
3.	'where' condition	
4.	Order by clause	
5.	group by and having clause	
6.	Joins	
7	Set Operators	
8	Set Queries	

## **Detailed Breakdown**



```
/*Group-1 final T-SQL PROJECT
Group member name
1,Frehiwot Mengistie
2,Efrem Kifle
3, Haftamu Molla
4, Eliyam Wondmeneh
Date:-05/03/2023
 */
create database Baro_SQL
USE Baro_SQL
GO
create table LOCATION
(Location_Id int primary key,
 City varchar(30));
insert into LOCATION
values (122,'New York'),
    (123, 'Dallas'),
         (124, 'Chicago'),
         (167, 'Boston')
create table DEPARTMENT
 (Department_Id int primary key identity(10,10),
 Name Varchar(50),
 Location_Id int foreign key(Location_Id)references Location(Location_Id))
insert into DEPARTMENT
values ('Accounting', 122),
    ('Sales', 124),
        ('Research', 123),
         ('Operations',167)
create table Job
(Job Id int primary key identity(667,1), Designation Varchar(50))
insert into Job
Values ('Clerk'),
    ('Staff'),
         ('Analyst'),
         ('SalesPerson'),
         ('Manager'),
```

```
Create table Employee
        (Employee Id int,
        LastName varchar(50),
        FirstName Varchar(50),
        MiddleName varchar(50),
        Job Id int foreign key(Job id) references Job (job Id),
        Manager Id int,
        HireDate date,
        salary money,
        Comm money null,
        Department Id int Foreign key
        (Department_Id) references department(Department_Id)
        )
        Insert into Employee
        values(7369, 'Smith', 'John', 'Q', 667, 7902, '1984-12-17', 800, NULL, 20),
            (7499, 'Allen', 'Kevin', 'J', 670, 7698, '1985-02-20', 1600, 300, 30),
                 (7505, 'Doyle', 'Jean', 'K', 671, 7839, '1985-04-04', 2850, NULL, 30),
                 (7506, 'Dennis', 'lynn', 'S', 671, 7839, '1985-05-15', 2750, NULL, 30),
                 (7507, 'Baker', 'Leslie', 'D', 671, 7839, '1985-06-10', 2200, NULL, 40),
                      (7521, 'Wark', 'Cynthia', 'D', 670, 7698, '1985-02-22', 1250, 500, 30)
                      --simple queries:
                      --1,
Select*
From Employee
Select*
From DEPARTMENT
Select*
From job
Select*
From LOCATION
Select FirstName,LastName,Salary,comm
From Employee
Select Employee_id as 'id of employee',LastName as name,
```

('President')

--2

--3

--4

```
Department_Id as 'dep_id'
From Employee
--7
Select FirstName,LastName,sum(12*Salary)
as 'Annual salary'
From employee
Group by FirstName,LastName
--'Where' condition:
--1,
Select*
From Employee
Where lastName='Smith'
--2,
Select*
From Employee
Where department_id=20
--3.
Select*
From employee
Where salary between 3000 and 4500
--4,
select*
From employee
Where department_id IN(10,20)
--5,
Select*
From Employee
Where department_id not in(10,30)
--6,
Select*
From employee
Where LastName like 'S%'
--7,
select*
From Employee
Where LastName like 'S%h'
--8.
Select*
From Employee
Where LastName like 'S____'
--9,
Select *
From employee
```

```
Where department Id=10 and salary>3500
--10,
Select*
From Employee
Where comm is null
--order by clause:
--1,
select employee_id,LastName
From employee
order by employee_id
--2,
Select employee id,FirstName,LastName
From Employee
Order by salary desc
--3,
select*
From Employee
order by lastName asc,salary desc
--4,
select*
From Employee
order by lastName asc,Department Id desc
--group by & having clause
--1,
select Department_id, count(department_id)
as 'TotalInDepartment'
From employee
Group by Department_Id
--2,
select Department id, max(salary) as MaximumSalary,
    Min(Salary) as MinimumSalary, avg(Salary)
        as avrageSalary
        from employee
        Group by Department_Id
--3.
select Job Id, max(salary) as MaximumSalary,
    Min(Salary) as MinimumSalary, avg(Salary) as avrageSalary
        from employee
        Group by Job Id
--4,
Select DATENAME(Month, HireDate) as month,
count(Datename(month,hireDate)) AS month_wise
```

```
from Employee
group by DATENAME(month, HireDate)
--5.
select concat(Datename(month, HireDate),
datepart(year, HireDate)) as year month,
count(Datename(month,hireDate)) AS month year wise
from Employee
Group by DATENAME(month, HireDate),
datepart(year, HireDate)
--6,
select Department_Id,
count(*) as department count
from employee
group by Department_Id
having count(*)>=4
--7,
select count(employee id) as JanuaryHired
from Employee
where DATENAME(month, Hiredate)='January'
Group by hiredate, employee id
--8,
select count(employee id) as JanuaryAndSept
from Employee
where DATENAME(month, Hiredate)
in('January','September')
Group by hiredate, employee_id
--9,
--9. how many employees were joined in 1985.
select count(employee_id) as year1985
from Employee
where DATENAME(YEAR, Hiredate)='1985'
Group by DATENAME(YEAR, Hiredate)
--10,
select concat(Datename(month, HireDate) ,
datepart(year, HireDate)) as year 1985,
count(Datename(month,hireDate))
```

AS Hired\_year1985\_wise

where DATEPART(year, HireDate)=1985

from Employee

Group by DATENAME(month, HireDate), datepart(year, HireDate)

--11,

select concat(Datename(month,HireDate), datepart(year,HireDate))as year1985, count(Datename(month,hireDate))
AS month\_year1985\_wise from Employee where Datename(MONTH,HireDate)='march' and datepart(year,HireDate)=1985
Group by DATENAME(month,HireDate), datepart(year,HireDate)
--12,

select Department\_Id from employee where Datename(month,hiredate)='april' and DATEPART(year,hiredate)=1985 and Department Id>=3

# --joins

Select\*

From Employee

Select\*

From DEPARTMENT

Select\*

From job

Select\*

From LOCATION

where Designation='manager'

--1,

select firstName,LastName,d.name from employee E INNER JOIN department d ON d.department\_id=E.Department\_Id --2, select firstName,LastName,Designation

from employee E INNER JOIN JOB J ON J.job id=e.Job Id

--3

select firstName,LastName,d.name as departmentName,City from employee E INNER JOIN department d ON d.department id=E.Department Id INNER JOIN location I on I.location id=d.Location Id --4 select count(e.department id) as numberOfemployee,name from DEPARTMENT d INNER JOIN Employee e on e.department id=d.Department Id group by e.Department\_Id,name --5. select count(e.department\_id) as salesEmployee,d.name from employee e INNER JOIN Department d on e.department id=d.Department Id group by d.name having d.name='sales'

--6,
select count(E.Department\_Id)
as employeeCount,d.name
from employee e
INNER JOIN DEPARTMENT D
ON D.Department\_Id=E.Department\_Id
group by d.Name
Having count(\*)>=5
order by d.Name

--7, select count(e.job\_id) as jobsInOrganazation, j.Designation from Employee E INNER JOIN JOB J ON E.job\_id=j.Job\_ld Group by j.designation

--8, Select count(d.location\_id) as Newyorkers from department d
INNER JOIN location I ON
d.Location\_Id=I.Location\_Id
group by City
Having city='New york'

--9, SELECT FirstName, LastName, salary, RANK() OVER(ORDER BY SALARY DESC) AS Grade from Employee --10, select count(employee\_id) salaryGradeCount from Employee group by salary --11 SELECT FirstName, LastName, RANK() OVER(ORDER BY SALARY DESC) AS Grade, count(employee id) AS NoOfEmployee from Employee Group by salary, FirstName, LastName having salary between 2000 and 5000 --12, select e.firstname,e.lastname,q.employee id, g.manager id from Employee e, Employee q SELF JOIN on e.employee id=e.manager id

select e.firstname as employeeName, m.firstname as managerName from Employee e left outer join Employee m on e.Manager\_ld=m.Employee\_ld

- --There supposed be one more table that shows manager
- -- and employee relation
- --13

where

- --14
- --15
- --16

select firstName,LastName,d.name from employee e

```
INNER JOIN DEPARTMENT D
ON E.DEPARTMENT_ID=D.DEPARTMENT_ID
group by FirstName,LastName,D.Name,e.Department_Id
HAVING e.department_id in(20,40)
--set operators
--1,
select distinct job_id
from employee
Where department id in(10,20)
select job_id,FirstName,LastName
from employee
Where department_id in(10,20)
--3,
select job id
from employee
where Department_Id in (30,10)
intersect
select job_id
from job
select*from job
select*from DEPARTMENT
select*from Employee
--sub queries
--1,
select *
from employee
Where salary =(select max(salary) from Employee)
--2,
select*from employee
where department id
```

in(select department\_id

from DEPARTMENT where name='sales')

```
--3
select*from Employee
where job_id in(select job_id from employee
where job id=667)
select*from DEPARTMENT
select*from location
select*from Employee
--4
select firstname, lastname, city, d. department id,
I.location_id from Employee e
inner join department d on
d.department_id=e.department_id
inner join location I on
I.location id=d.Location Id
where exists (select city from location where
I.Location Id=122)
--5
select count(department_id)
as salesemployee from Employee
where Department Id
in( select department_id
from employee
where department_id=20)
--6,
UPDATE Employee
SET salary=(select salary+(select salary*.1))
where Job Id=667
--7,
delete Employee
where department_id=10
--8,
select max(salary)as secondHighest from Employee
where salary<(select max(salary) from Employee)
--9
select top 1 *from(select firstname,
lastname, salary,
DENSE RANK()over(order by salary DESC)AS
NthHighestSalary from Employee)employee
```

#### --10

select top 1 \*from(select firstname, lastname,salary, DENSE\_RANK()over(order by salary DESC)AS NthHighestSalary from Employee where department id=30)employee

# --11,

select top 1 \*from(select firstname, lastname,salary, DENSE\_RANK()over(order by salary asc)AS NthHighestSalary from Employee where department id=30)employee

## --12,

select name from department where name not in (select d.name from department d inner join employee e on d.Department Id=e.Department Id)

# --13,

select name from department where name not in (select d.name from department d inner join employee e on d.Department\_ld=e.Department\_ld)

## --14,

select firstname,department\_id,salary from employee where salary>(select avg(salary) as avrageSalary from Employee) group by firstname, Department\_Id,salary

----completed-----