Institute of computer technology

B.Tech-CSE(BDA)

Name:- Shaikh Anik

Sem:-3

Enrollment no.:-23162121021

Batch:-31

Sub:-DBMS

Date:-14/8/24

Practical 5

Q:- 1) How many employees are there in each department?

2) Find out total number of job role assigned in each department.

3) Find out employee’s names and salary whose having salary more than 2000.

(Duplication in employee name should be removed)

4) Find out number of employees hired after 03rd April 1991.

5) lists the number of employees in each job role, sorted high to low.

6) lists the number of employees in each department. Only include department with

more than 3 employees in each.

7) Display the total amount of the salary on each department.

8) Count total number of employees assigned in each department whose name end

with “n”.

9) Find out total number of employees having "a" as a character in their name in

each department.

10) Find out total number of employees having salary more than average salary of

all the employee in each department.

11)Display total number of employees in each department whose department

having more than 2 employees also display department id in descending order.

12) Display department wise average salary of employee.

13)Display department id of the employee along with salary whose salary is

maximum in respective department.

14)Display department id of the employee along with salary whose salary is

minimum in respective department.

A=> Query:- use bda_23162121021;

```
create table employees (emp_id int, emp_name varchar(20), job_name varchar(20), hire_date date, salary decimal(10, 2), dep_id int);


show variables like 'secure_file_priv';

show variables like 'local_infile';

show global variables like 'local_infile';

show session variables like 'local_infile';


load data infile 'd:\\d_drive\\practicals\\sem 3\\[2024] dbms - 2023 batch\\emp_mstr.csv'

into table employees

fields terminated by ','

enclosed by ""

lines terminated by '\n'

ignore 1 rows;
```

1)select dep_id, count(emp_id) as employee_count from employees group by dep_id;

2)select dep_id, count(distinct job_name) as job_role_count from employees group by dep_id;

3)select distinct emp_name, salary from employees where salary > 2000;

4)select count(emp_id) as employee_count from employees where hire_date > '1991-04-03';

5)select job_name, count(emp_id) as employee_count from employees group by job_name order by employee_count desc;

6)select dep_id, count(emp_id) as employee_count from employees group by dep_id having count(emp_id) > 3;

7)select dep_id, sum(salary) as total_salary from employees group by dep_id;

8)select dep_id, count(emp_id) as employee_count from employees where emp_name like '%n' group by dep_id;

9)select dep_id, count(emp_id) as employee_count from employees where emp_name like '%a%' group by dep_id;

10)select dep_id, count(emp_id) as employee_count from employees e1 where salary > (select avg(salary) from employees e2 where e2.dep_id = e1.dep_id) group by dep_id;

11)select dep_id, count(emp_id) as employee_count from employees group by dep_id having count(emp_id) > 2 order by dep_id desc;

12)select dep_id, avg(salary) as average_salary from employees group by dep_id;

13)select dep_id, max(salary) as max_salary from employees group by dep_id;

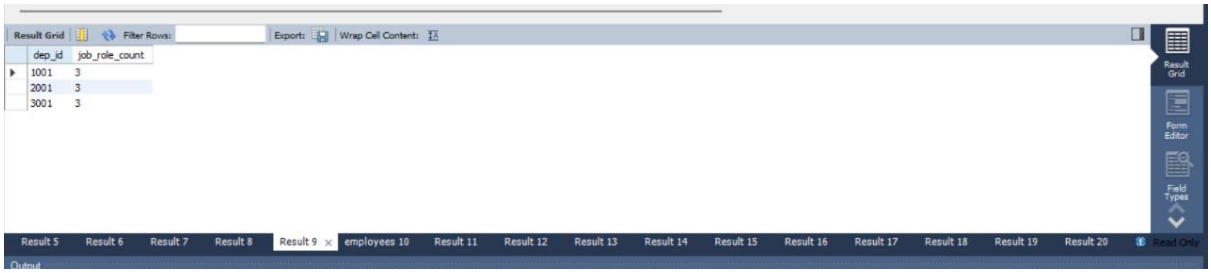
14)select dep_id, min(salary) as min_salary from employees group by dep_id;

Screenshot:-

1

dep_id	employee_count
1001	4
3001	7
2001	6

2

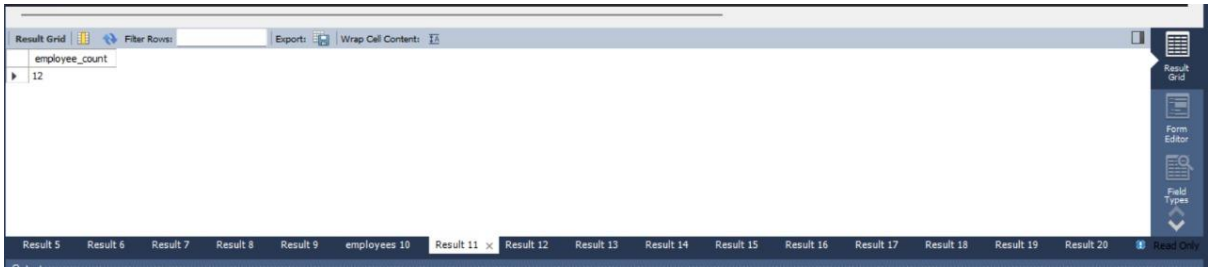


dep_id	job_role_count
1001	3
2001	3
3001	3

3

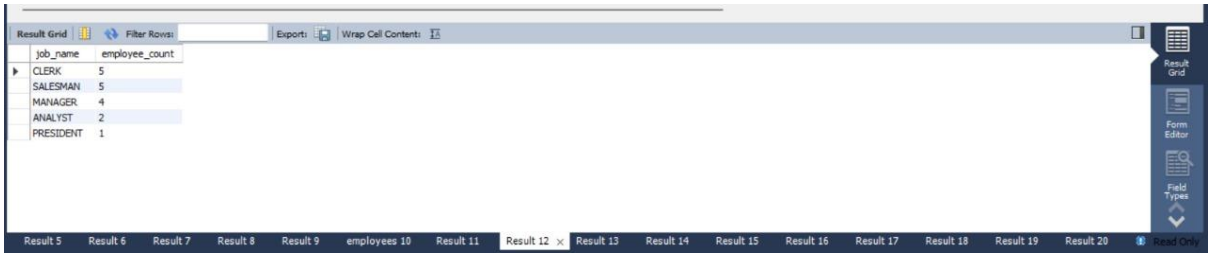
emp_name	salary
KAYLING	6000.00
BLAZE	2750.00
CLARE	2550.00
JONAS	2957.00
SCARLET	3100.00
FRANK	3100.00

4



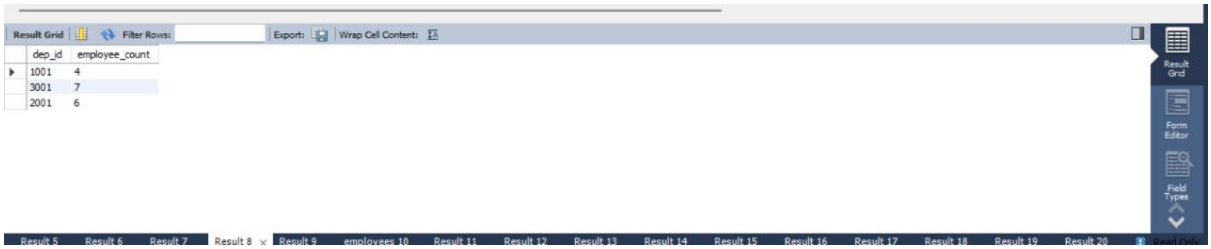
employee_count
12

5



job_name	employee_count
CLERK	5
SALESMAN	5
MANAGER	4
ANALYST	2
PRESIDENT	1

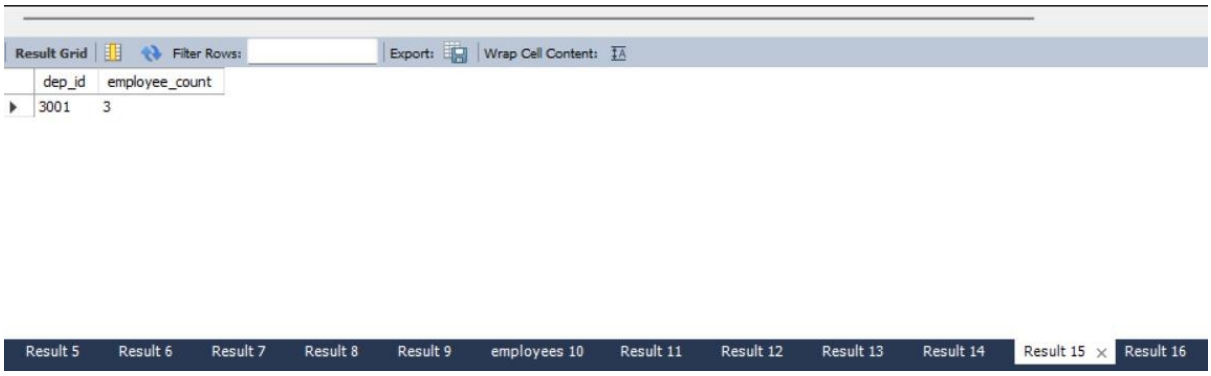
6


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
dep_id employee_count
1001 4
3001 7
2001 6
Result 5 Result 6 Result 7 Result 8 Result 9 employees 10 Result 11 Result 12 Result 13 Result 14 Result 15 Result 16 Result 17 Result 18 Result 19 Result 20

7


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
dep_id total_salary
1001 11950.00
3001 11500.00
2001 12457.00
Result 5 Result 6 Result 7 Result 8 Result 9 employees 10 Result 11 Result 12 Result 13 Result 14 Result 15 Result 16 Result 17 Result 18 Result 19 Result 20

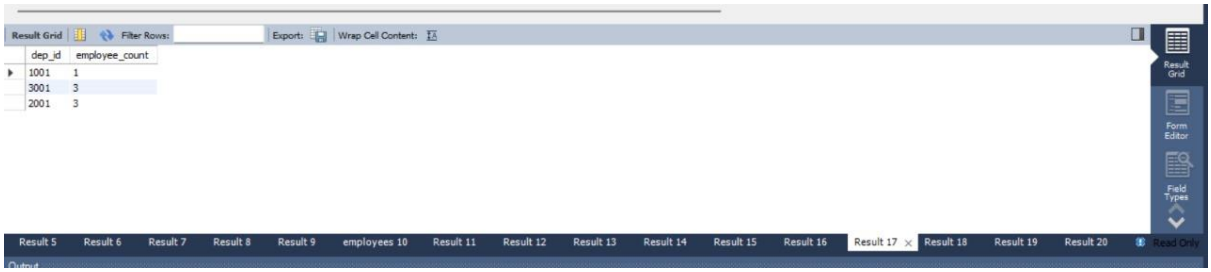
8


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
dep_id employee_count
3001 3
Result 5 Result 6 Result 7 Result 8 Result 9 employees 10 Result 11 Result 12 Result 13 Result 14 Result 15 Result 16

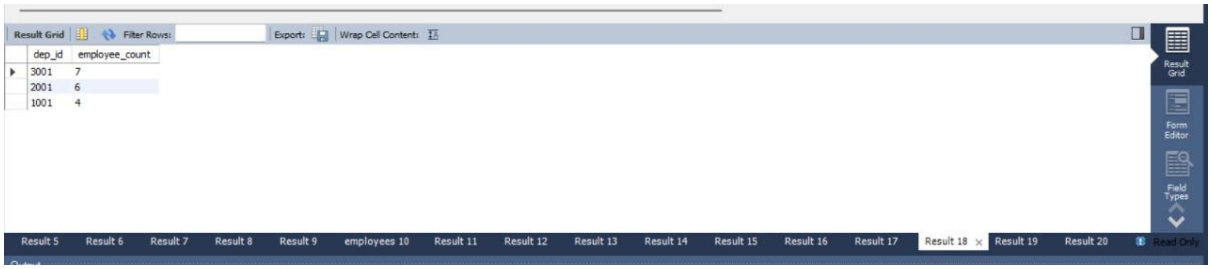
9


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
dep_id employee_count
1001 4
3001 5
2001 6
Result 5 Result 6 Result 7 Result 8 Result 9 employees 10 Result 11 Result 12 Result 13 Result 14 Result 15 Result 16 Result 17 Result 18 Result 19 Result 20

10

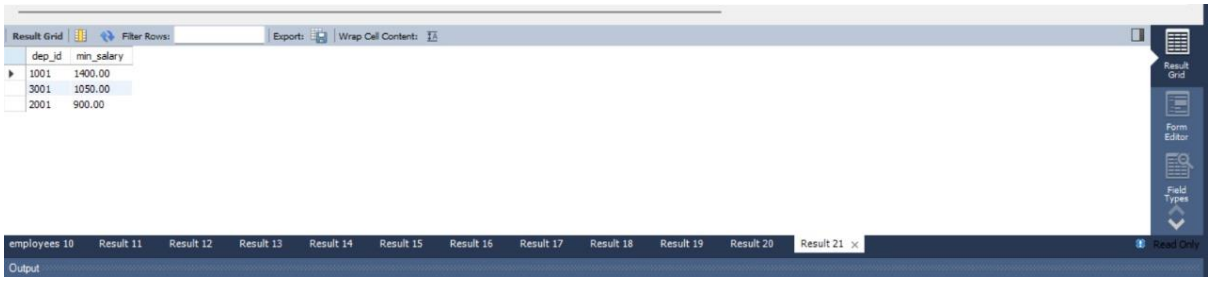

Result Grid
Filter Rows:
Export:
Wrap Cell Content:
dep_id employee_count
1001 1
3001 3
2001 3
Result 5 Result 6 Result 7 Result 8 Result 9 employees 10 Result 11 Result 12 Result 13 Result 14 Result 15 Result 16 Result 17 Result 18 Result 19 Result 20

11



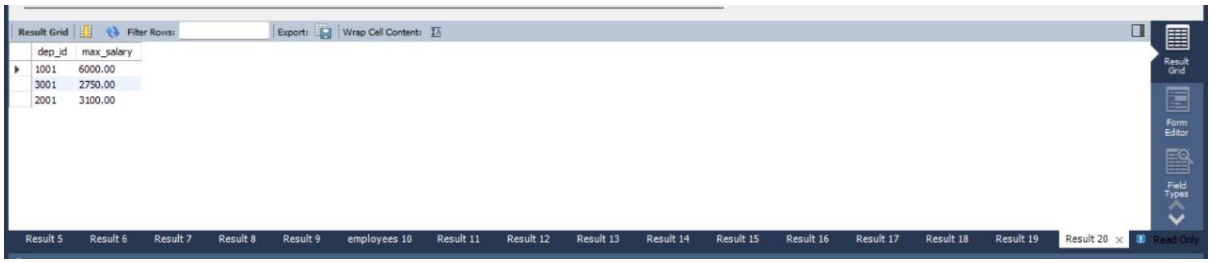
dep_id	employee_count
3001	7
2001	6
1001	4

12



dep_id	min_salary
1001	1400.00
3001	1050.00
2001	900.00

13



dep_id	max_salary
1001	6000.00
3001	2750.00
2001	3100.00

14

dep_id	average_salary
1001	2987.500000
3001	1642.857143
2001	2076.166667

Action logs:-

Output

Action Output

#	Time	Action	Message	Duration / Fetch
14	22:17:27	SHOW VARIABLES LIKE 'local_infile'	1 row(s) returned	0.000 sec / 0.000 sec
15	22:17:27	SHOW GLOBAL VARIABLES LIKE 'local_infile'	1 row(s) returned	0.000 sec / 0.000 sec
16	22:17:27	SHOW SESSION VARIABLES LIKE 'local_infile'	1 row(s) returned	0.000 sec / 0.000 sec
17	22:17:27	LOAD DATA INFILE 'D:\\d_drive\\Practicals\\Sem 3\\[2024] DBMS - 2023 Batch\\EMP_MSTR.csv' INTO ...	17 row(s) affected Records: 17 Deleted: 0 Skipped: 0 Warnings: 0	0.016 sec
18	22:17:27	select dep_id, count(emp_id) as employee_count from employees group by dep_id LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
19	22:17:27	select dep_id, count(distinct job_name) as job_role_count from employees group by dep_id LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
20	22:17:27	select distinct emp_name, salary from employees where salary > 2000 LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
21	22:17:27	select count(emp_id) as employee_count from employees where hire_date > '1991-04-03' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
22	22:17:27	select job_name, count(emp_id) as employee_count from employees group by job_name order by employee_co...	5 row(s) returned	0.000 sec / 0.000 sec
23	22:17:27	select dep_id, count(emp_id) as employee_count from employees group by dep_id having count(emp_id) > 3 LI...	3 row(s) returned	0.000 sec / 0.000 sec
24	22:17:27	select dep_id, sum(salary) as total_salary from employees group by dep_id LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
25	22:17:27	select dep_id, count(emp_id) as employee_count from employees where emp_name like '%n' group by dep_id L...	1 row(s) returned	0.000 sec / 0.000 sec
26	22:17:27	select dep_id, count(emp_id) as employee_count from employees where emp_name like '%a%' group by dep_id...	3 row(s) returned	0.000 sec / 0.000 sec
27	22:17:27	select dep_id, count(emp_id) as employee_count from employees e1 where salary > (select avg(salary) from em...	3 row(s) returned	0.000 sec / 0.000 sec
28	22:17:27	select dep_id, count(emp_id) as employee_count from employees group by dep_id having count(emp_id) > 2 or...	3 row(s) returned	0.000 sec / 0.000 sec
29	22:17:27	select dep_id, avg(salary) as average_salary from employees group by dep_id LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
30	22:17:27	select dep_id, max(salary) as max_salary from employees group by dep_id LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
31	22:17:27	select dep_id, min(salary) as min_salary from employees group by dep_id LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec