

JOB PLACEMENT AND EMPLOYEES PLACEMENT DETAILS

NAME :KASINATHAN T

ENTROLL NUMBER : EBEON0724139123

SUBJECT : MYSQL

COURSE : **ADVANCED CERTIFICATION PROGRAM IN DATA ANALYTICS**

INTRODUCTION

- ▶ This dataset contains information about Bachelor's degree graduates from various universities in the USA and their placement status. It includes details such as gender, age, field of study, university name, whether they were placed or not, salary upon placement (if applicable), GPA, and years of experience. The dataset provides insights into the employment outcomes of recent Bachelor's degree graduates across different fields of study and universities in the United States. It can be used for analyzing placement trends, comparing placement rates among universities, and exploring factors influencing employment success for Bachelor's graduates.

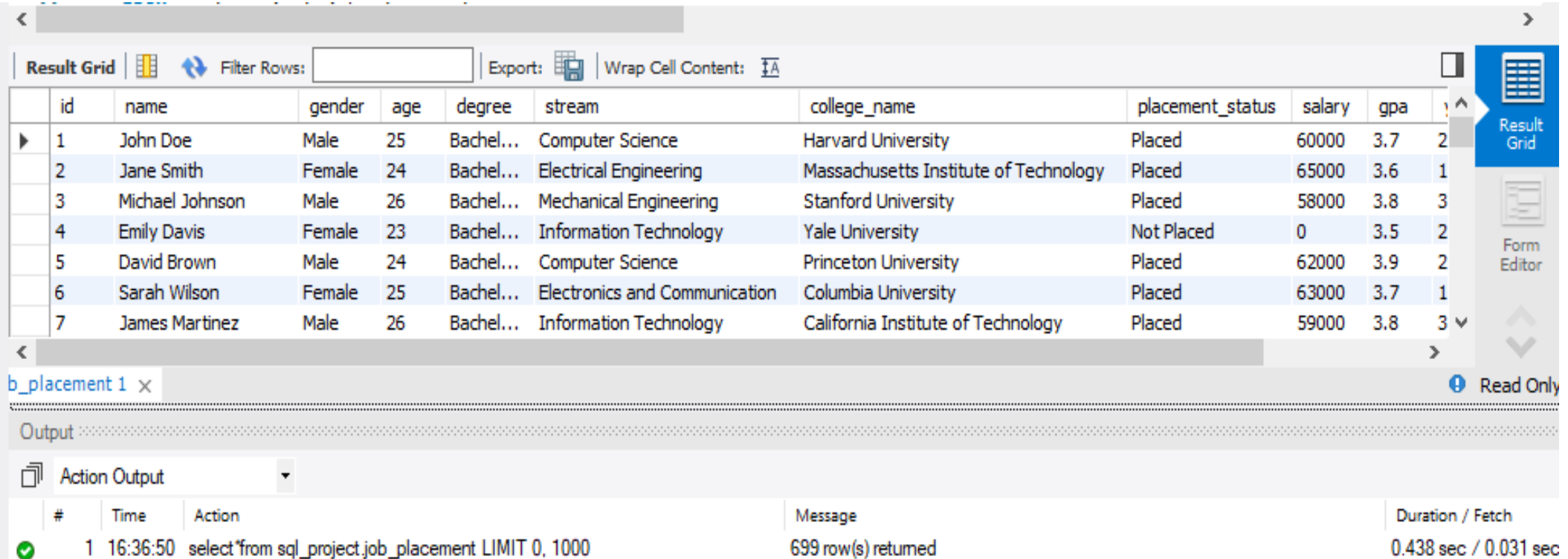
PLACEMENT TABLE DETAILS

EMP_ID	
EMP_NAME	
EMP_GENDER	
EMP_AGE	
EMP_DEGREE	
EMP_STREAM	
COLLEGE_NMAE	
PLACEMENT_STATUS	
GPA	
YEAR_OF_EXPERIENCE	

1)HOW TO FIND THE DATASET TABLE DETAILS?

```
select*from  
sql_project.job_placement;
```

OUTPUT:



The screenshot displays a database query result interface. At the top, there's a toolbar with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below this is a table with 11 columns: id, name, gender, age, degree, stream, college_name, placement_status, salary, gpa, and an unlabeled column with values 2, 1, 3, 2, 2, 1, 3. The table contains 7 rows of data. To the right of the table is a vertical sidebar with buttons for 'Result Grid' and 'Form Editor'. Below the table, there's a section labeled 'b_placement 1' with a 'Read Only' indicator. Underneath is an 'Output' section with a dropdown menu set to 'Action Output'. The output log shows a successful query execution with the following details:


#	Time	Action	Message	Duration / Fetch
1	16:36:50	select*from sql_project.job_placement LIMIT 0, 1000	699 row(s) returned	0.438 sec / 0.031 sec


2) find the how many employees complete degree in same college ?


```
SELECT college_name, COUNT(*) AS total_employee  
FROM sql_project.job_placement  
GROUP BY college_name;
```

OUTPUT:

Result Grid

 Filter Rows:

Export: 

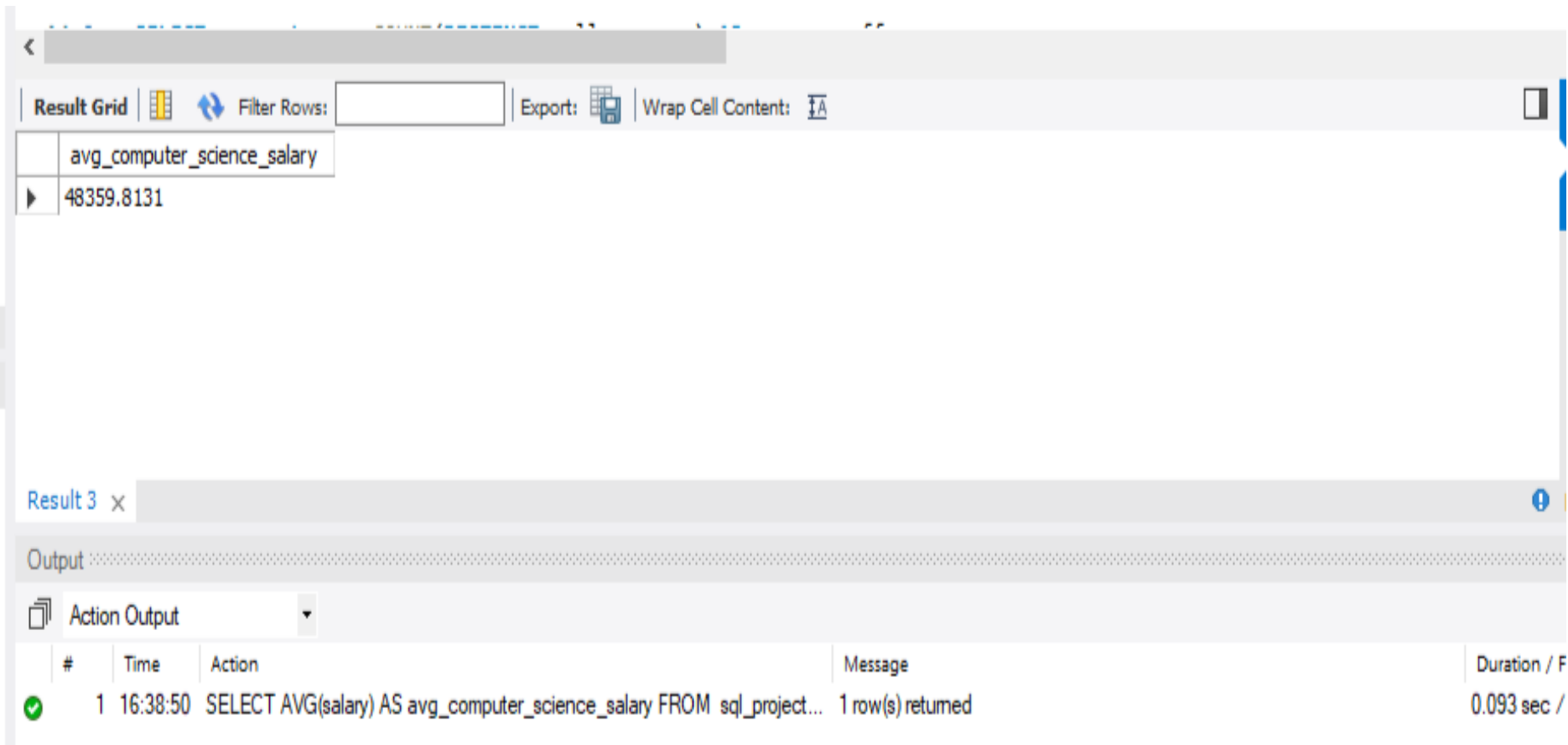
Wrap Cell Content: 

	college_name	total_employee
	California Institute of Technology	1
	University of Chicago	1
	University of Pennsylvania	40
	Northwestern University	1
	Duke University	1
	Johns Hopkins University	1
	University of California--Berkeley	43
	University of Michigan--Ann Arbor	42

3) Find the average salary of employee in a specific major (e.g., Computer Science)

```
SELECT AVG(salary) AS avg_computer_science_salary  
FROM sql_project.job_placement  
WHERE stream = 'Computer Science';
```

OUTPUT:



The screenshot shows a SQL query execution interface. At the top, there's a toolbar with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below this, a table displays the query result. The table has one column named 'avg_computer_science_salary' and one row with the value '48359.8131'. At the bottom, there's an 'Output' section with a table showing the execution details, including the query text, the number of rows returned, and the execution time.

	avg_computer_science_salary
▶	48359.8131

#	Time	Action	Message	Duration / F
✓ 1	16:38:50	SELECT AVG(salary) AS avg_computer_science_salary FROM sql_project...	1 row(s) returned	0.093 sec /

4) how many employee get more offered in company and give employee stream details

```
SELECT name,stream, COUNT(DISTINCT college_name) AS company_offers
FROM sql_project.job_placement
GROUP BY name,stream
HAVING COUNT(DISTINCT college_name) > 1
limit 200;
```

OUTPUT:

Result Grid				Filter Rows:		Export:	Wrap Cell Content:
	name	stream	company_offers				
▶	Aiden Davis	Computer Science	14				
	Alexander Lee	Information Technology	14				
	Amelia Rivera	Computer Science	3				
	Amelia Smith	Electronics and Communication	2				
	Amelia Smith	Mechanical Engineering	2				
	Ava Lee	Information Technology	13				
	Ava Williams	Electrical Engineering	2				
	Ava Williams	Information Technology	2				

Result 4 x

Output

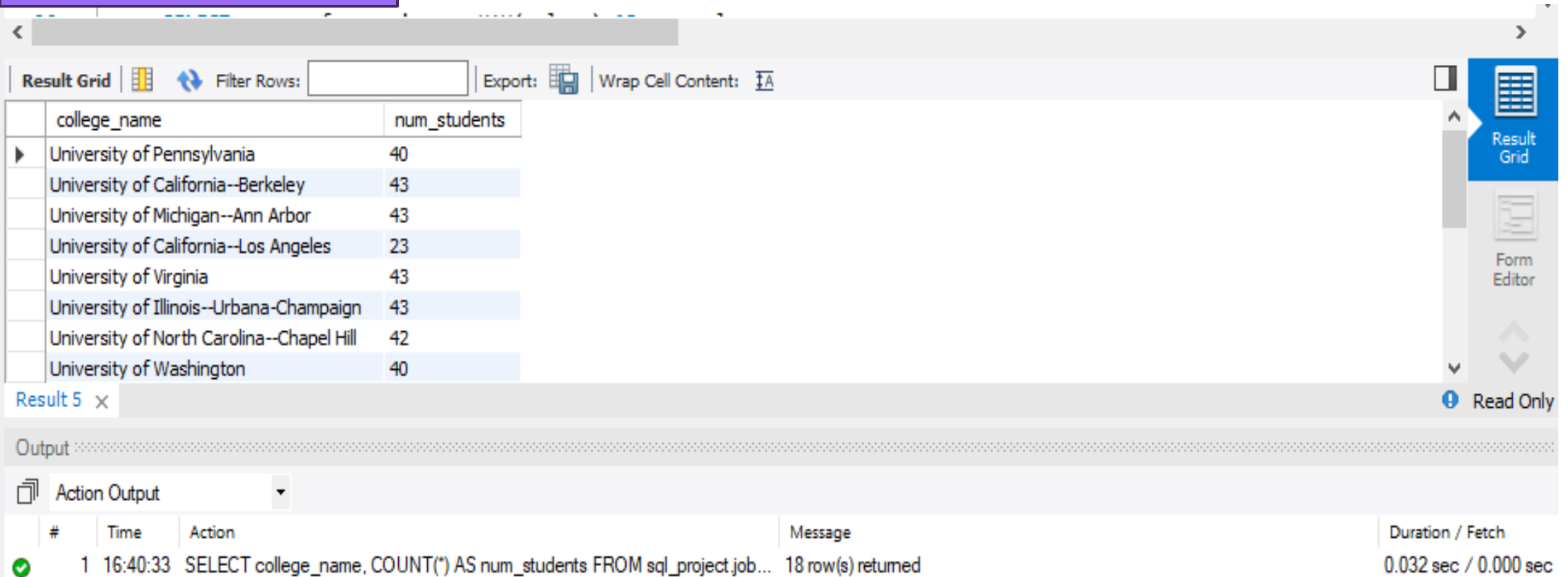
Action Output

#	Time	Action	Message	Duration
✓ 1	16:38:50	SELECT AVG(salary) AS avg_computer_science_salary FROM sql_project...	1 row(s) returned	0.093 se
✓ 2	16:39:21	SELECT name,stream, COUNT(DISTINCT college_name) AS company_off...	50 row(s) returned	0.031 se

5) Find the college that hired more than 10 students ?

```
SELECT college_name, COUNT(*) AS num_students
FROM sql_project.job_placement
GROUP BY college_name
HAVING num_students > 10;
```

OUTPUT:



Result Grid

	college_name	num_students
▶	University of Pennsylvania	40
	University of California--Berkeley	43
	University of Michigan--Ann Arbor	43
	University of California--Los Angeles	23
	University of Virginia	43
	University of Illinois--Urbana-Champaign	43
	University of North Carolina--Chapel Hill	42
	University of Washington	40

Result 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	16:40:33	SELECT college_name, COUNT(*) AS num_students FROM sql_project.job...	18 row(s) returned	0.032 sec / 0.000 sec

6) Find employee with the highest salary in each employee in year_of_experience

```
WITH highest_salary_per_year AS (  
    SELECT years_of_experience, MAX(salary) AS max_salary  
    FROM sql_project.job_placement  
    GROUP BY years_of_experience  
)  
SELECT sjp.name, sjp.years_of_experience, sjp.salary, sjp.college_name  
FROM sql_project.job_placement sjp  
JOIN highest_salary_per_year hs  
ON sjp.years_of_experience = hs.years_of_experience AND sjp.salary = hs.max_salary;
```

The screenshot shows a database query tool interface. At the top, there's a toolbar with 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below this is a table with 5 columns: name, years_of_experience, salary, and college_name. The table contains 9 rows of data. To the right of the table is a vertical toolbar with 'Result Grid' and 'Form Editor' buttons. Below the table is a tab labeled 'Result 6'. At the bottom, there's an 'Output' section with a dropdown menu set to 'Action Output'. Below this is a log table with 5 columns: #, Time, Action, Message, and Duration / Fetch. The log shows a successful execution of the query, returning 20 rows.

	name	years_of_experience	salary	college_name
▶	Natalie Murphy	1	66000	University of California--Davis
	Mason Parker	2	67000	Georgetown University
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor
	Chloe Peterson	3	68000	University of Michigan--Ann Arbor

#	Time	Action	Message	Duration / Fetch
✓ 1	16:42:03	WITH highest_salary_per_year AS (SELECT years_of_experience, MAX...	20 row(s) returned	0.079 sec / 0.000 sec

7) find the grade in employee GPA table

```
SELECT id,name,stream,college_name,gpa,  
CASE  
    WHEN GPA >= 3.8 THEN 'A'  
    WHEN GPA >= 3.7 THEN 'B'  
    WHEN GPA >= 3.5 THEN 'C'  
    ELSE 'F'  
END AS student_gpa_grade  
FROM sql_project.job_placement;
```

OUTPUT:

id	name	stream	college_name	gpa	student_gpa_grade
1	John Doe	Computer Science	Harvard University	3.7	B
2	Jane Smith	Electrical Engineering	Massachusetts Institute of Technology	3.6	C
3	Michael Johnson	Mechanical Engineering	Stanford University	3.8	A
4	Emily Davis	Information Technology	Yale University	3.5	C
5	David Brown	Computer Science	Princeton University	3.9	A
6	Sarah Wilson	Electronics and Communication	Columbia University	3.7	B
7	James Martinez	Information Technology	California Institute of Technology	3.8	A
8	Emma Garcia	Computer Science	University of Chicago	3.6	C

8)find the how many employee get highest gpa in job placement table

```
SELECT id,name, stream,gpa
from sql_project.job_placement
WHERE gpa = (SELECT MAX(gpa)FROM
sql_project.job_placement);
```

OUTPUT:

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	id	name	stream	gpa
▶	5	David Brown	Computer Science	3.9
	11	William Hernandez	Computer Science	3.9
	17	Ethan Turner	Computer Science	3.9
	25	Owen Brooks	Information Technology	3.9
	31	Elijah Kelly	Information Technology	3.9
	41	Daniel Martinez	Computer Science	3.9
	45	Jack Bailey	Electrical Engineering	3.9
	49	Liam Russell	Information Technology	3.9

job_placement 8 x

Read Only

Output

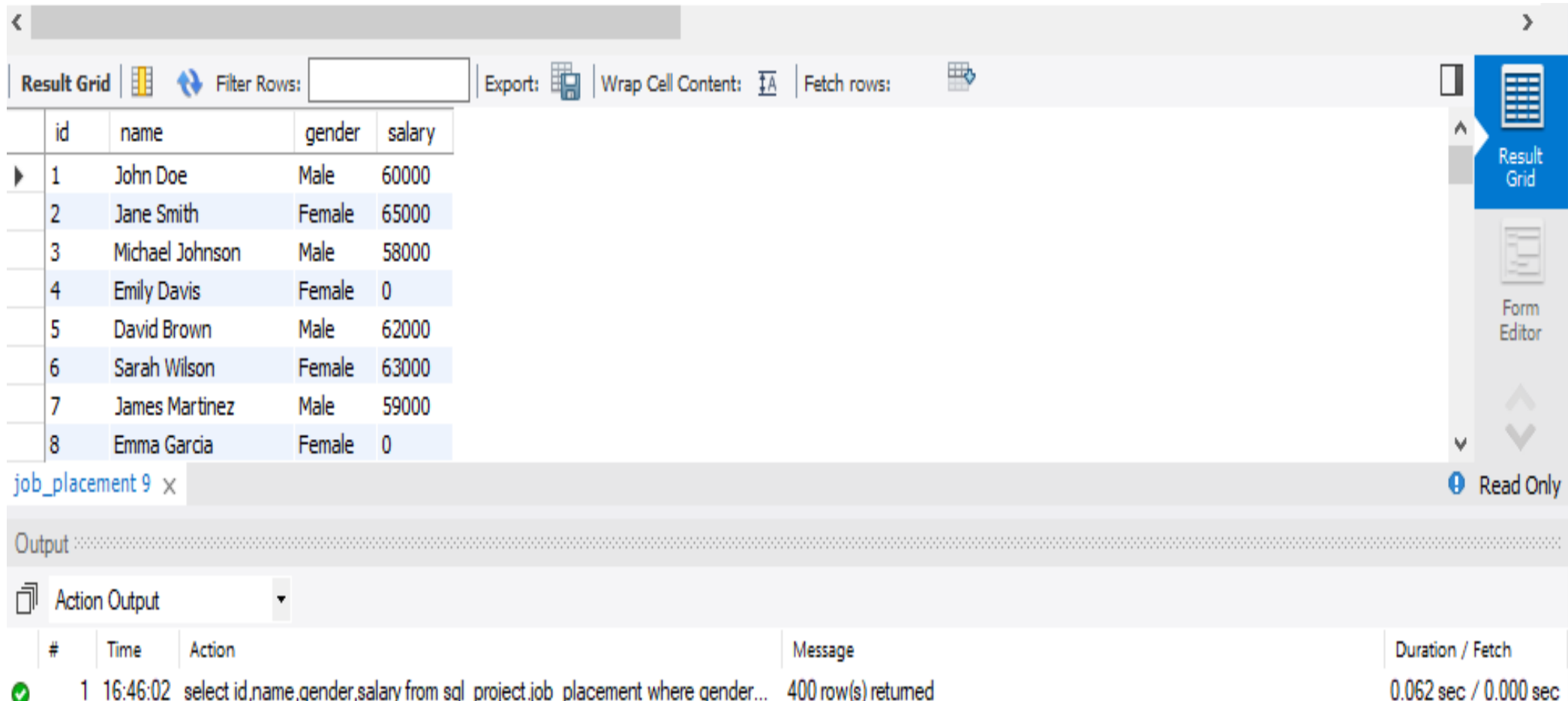
Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	16:42:03	WITH highest_salary_per_year AS (SELECT years_of_experience, MAX...	20 row(s) returned	0.079 sec / 0.000 sec
✓ 2	16:42:55	SELECT id,name,stream,college_name,gpa, CASE WHEN GP...	699 row(s) returned	0.000 sec / 0.000 sec

9) find the female and male present employee gender detail

```
select id,name,gender,salary
from sql_project.job_placement
where gender=('male' and 'female')
limit 400;
```

OUTPUT:



The screenshot displays a database management interface. At the top, a toolbar includes options for 'Result Grid', 'Filter Rows', 'Export', 'Wrap Cell Content', and 'Fetch rows'. Below this, a table with 4 columns (id, name, gender, salary) shows 8 rows of data. To the right of the table is a vertical sidebar with 'Result Grid' and 'Form Editor' buttons. At the bottom, a tab labeled 'job_placement 9' is active, and an 'Output' section shows a log of actions. The log entry indicates that a query was executed at 16:46:02, returning 400 rows in 0.062 seconds.

id	name	gender	salary
1	John Doe	Male	60000
2	Jane Smith	Female	65000
3	Michael Johnson	Male	58000
4	Emily Davis	Female	0
5	David Brown	Male	62000
6	Sarah Wilson	Female	63000
7	James Martinez	Male	59000
8	Emma Garcia	Female	0

#	Time	Action	Message	Duration / Fetch
1	16:46:02	select id,name,gender,salary from sql project.job_placement where gender=	400 row(s) returned	0.062 sec / 0.000 sec

10) find count female and male employee present in job gender table

```
SELECT gender, COUNT(*) AS count
FROM sql_project.job_placement
GROUP BY gender;
```

OUTPUT:

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	gender	count
▶	Male	334
	Female	365

Result 10 x Read Only

Output

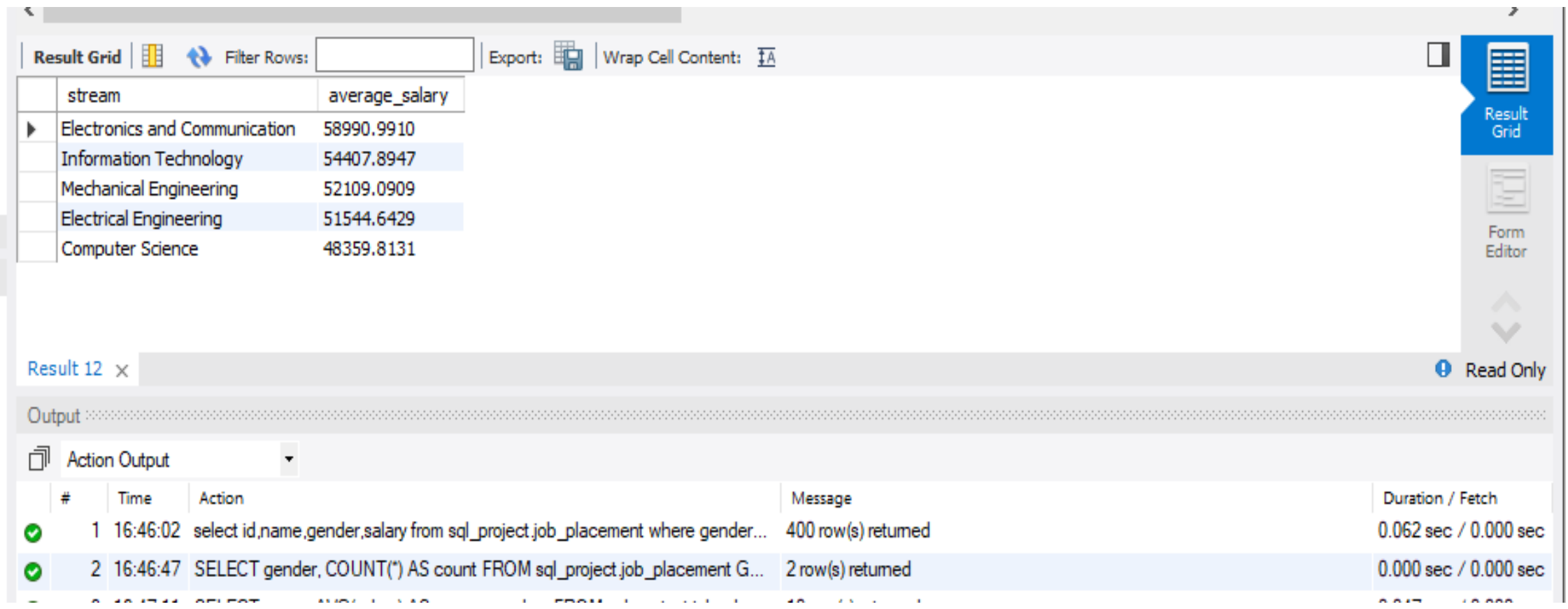
Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	16:46:02	select id,name,gender,salary from sql_project.job_placement where gender...	400 row(s) returned	0.062 sec / 0.000 sec
✓ 2	16:46:47	SELECT gender, COUNT(*) AS count FROM sql_project.job_placement G...	2 row(s) returned	0.000 sec / 0.000 sec

1) find department with the highest average salaries?

```
SELECT stream, AVG(salary) AS  
average_salary  
FROM sql_project.job_placement  
GROUP BY stream  
ORDER BY average_salary DESC  
LIMIT 10;
```

OUTPUT:



	stream	average_salary
▶	Electronics and Communication	58990.9910
	Information Technology	54407.8947
	Mechanical Engineering	52109.0909
	Electrical Engineering	51544.6429
	Computer Science	48359.8131

Result 12 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	16:46:02	select id,name,gender,salary from sql_project.job_placement where gender...	400 row(s) returned	0.062 sec / 0.000 sec
✓ 2	16:46:47	SELECT gender, COUNT(*) AS count FROM sql_project.job_placement G...	2 row(s) returned	0.000 sec / 0.000 sec

12) Identify employee with a significant difference between the highest and lowest salaries:

```
SELECT name, MAX(salary) - MIN(salary) AS  
salary_difference  
FROM sql_project.job_placement  
GROUP BY name  
ORDER BY salary_difference DESC;
```

OUTPUT:

	name	salary_difference
▶	Sophia Martinez	68000
	Noah Garcia	68000
	Isabella Martinez	68000
	Emma Martinez	68000
	Elijah Garcia	68000
	Emma Brown	68000
	Olivia Brown	68000
	William Garcia	68000

<		
Result Grid		
Filter Rows:		
	name	salary_difference
	Ava Williams	67000
	Jack Garcia	67000
	Lucas Taylor	67000
	Aiden Davis	67000
	Liam Brown	66000
	Grace Watson	66000
	Daniel Martinez	63000
	Shirley Brown	62000
Result 4		

CONCLUSION

- ▶ The dataset provides detailed information about individuals including their name, gender, age, education level, field of study, university attended, placement status, salary, and GPA, allowing for comprehensive analysis. so insert the title is job placement and employees placement details



Thank you
