JOB PLACEMENT AND EMPLOYEES PLACEMENT DETAILS

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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.

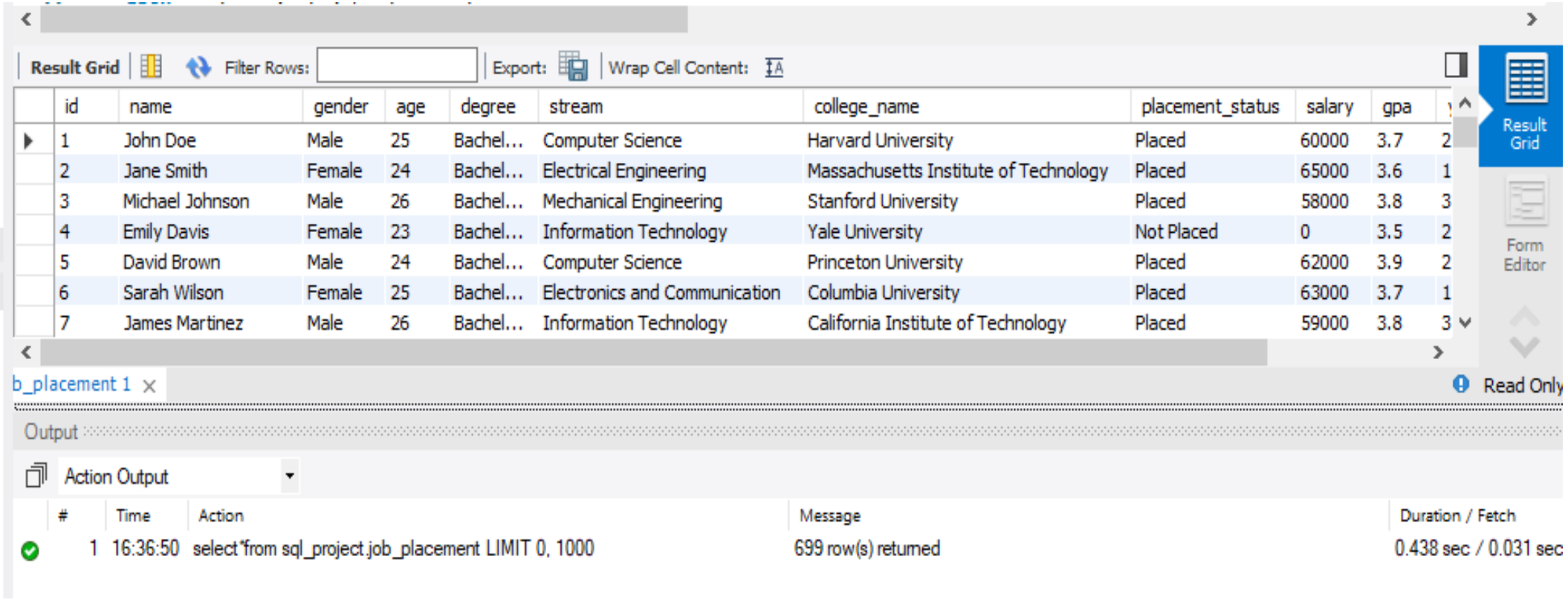
PLACEMENT TABLE DETAILS

- 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:



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

id	name	gender	age	degree	stream	college_name	placement_status	salary	gpa	
1	John Doe	Male	25	Bachel...	Computer Science	Harvard University	Placed	60000	3.7	2
2	Jane Smith	Female	24	Bachel...	Electrical Engineering	Massachusetts Institute of Technology	Placed	65000	3.6	1
3	Michael Johnson	Male	26	Bachel...	Mechanical Engineering	Stanford University	Placed	58000	3.8	3
4	Emily Davis	Female	23	Bachel...	Information Technology	Yale University	Not Placed	0	3.5	2
5	David Brown	Male	24	Bachel...	Computer Science	Princeton University	Placed	62000	3.9	2
6	Sarah Wilson	Female	25	Bachel...	Electronics and Communication	Columbia University	Placed	63000	3.7	1
7	James Martinez	Male	26	Bachel...	Information Technology	California Institute of Technology	Placed	59000	3.8	3

Result Grid | Form Editor | Read Only

b_placement 1

Output

Action Output

#	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:

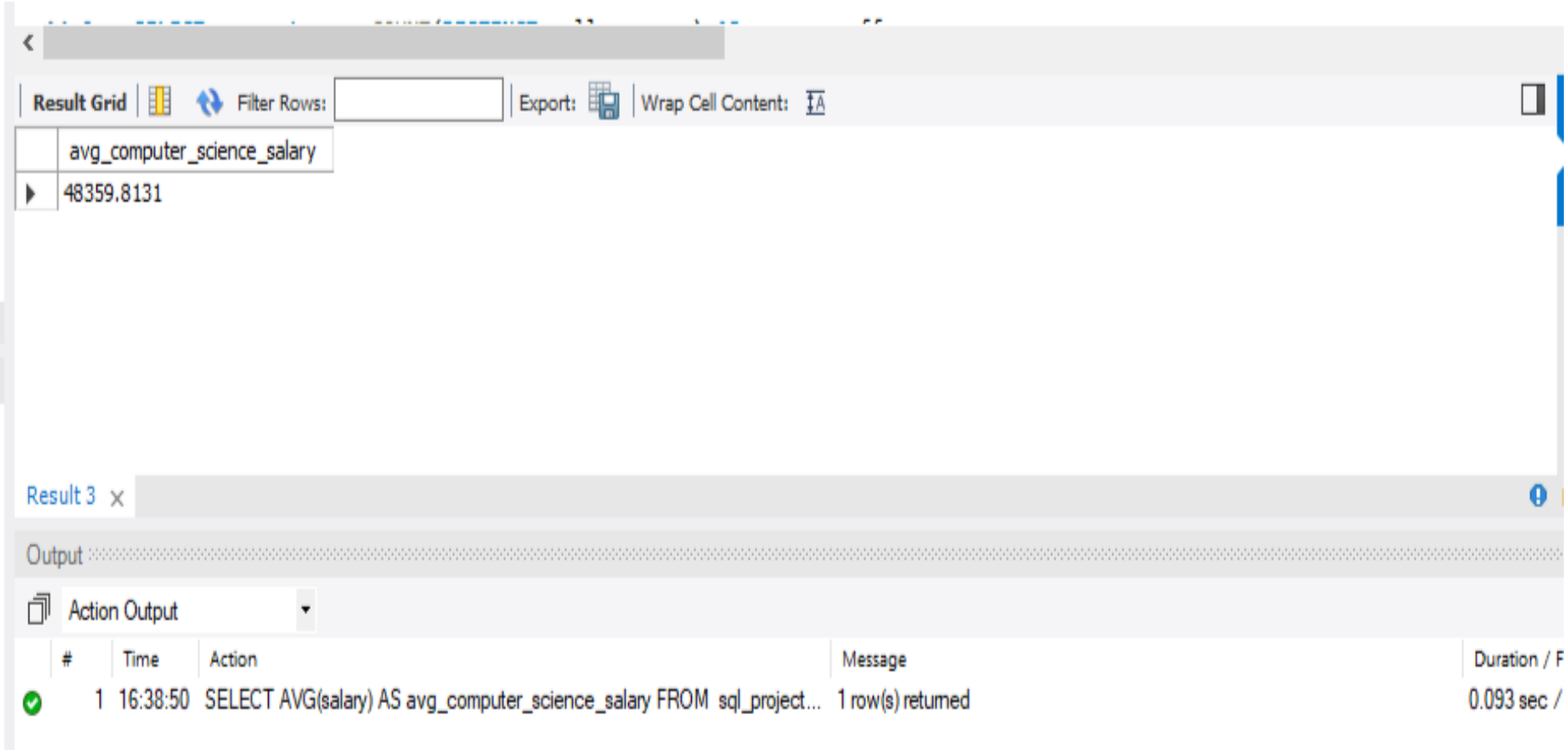
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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

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';
```

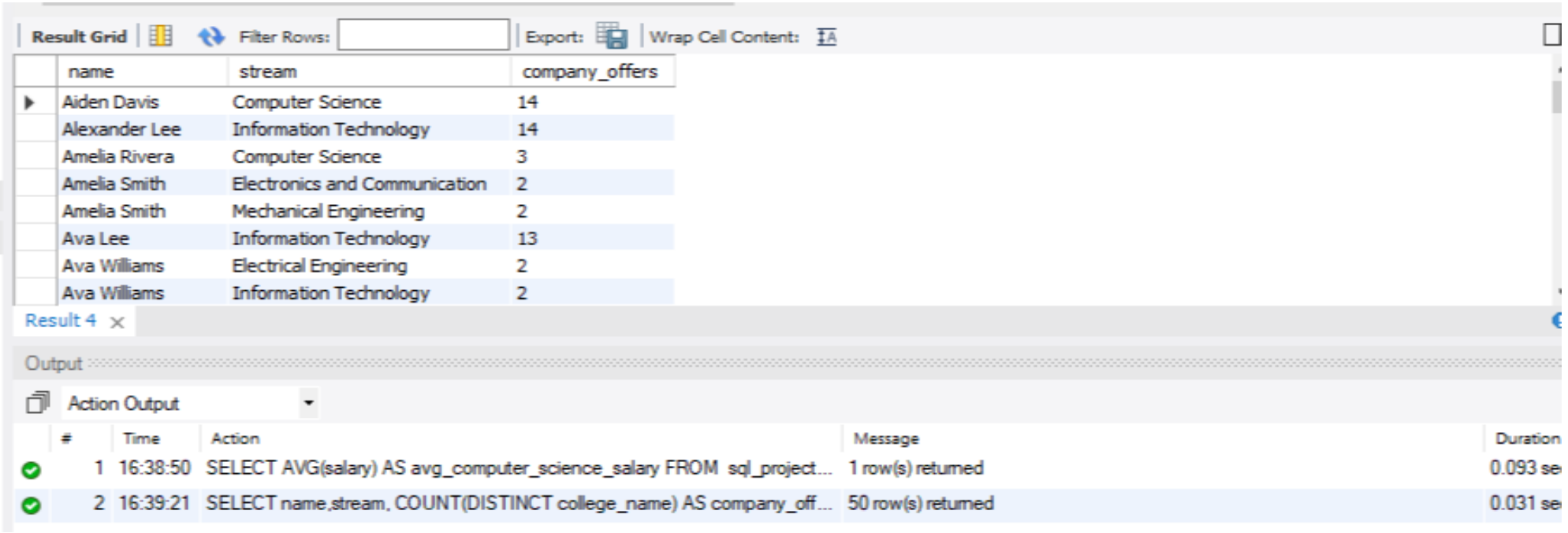
OUTPUT:



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

Output

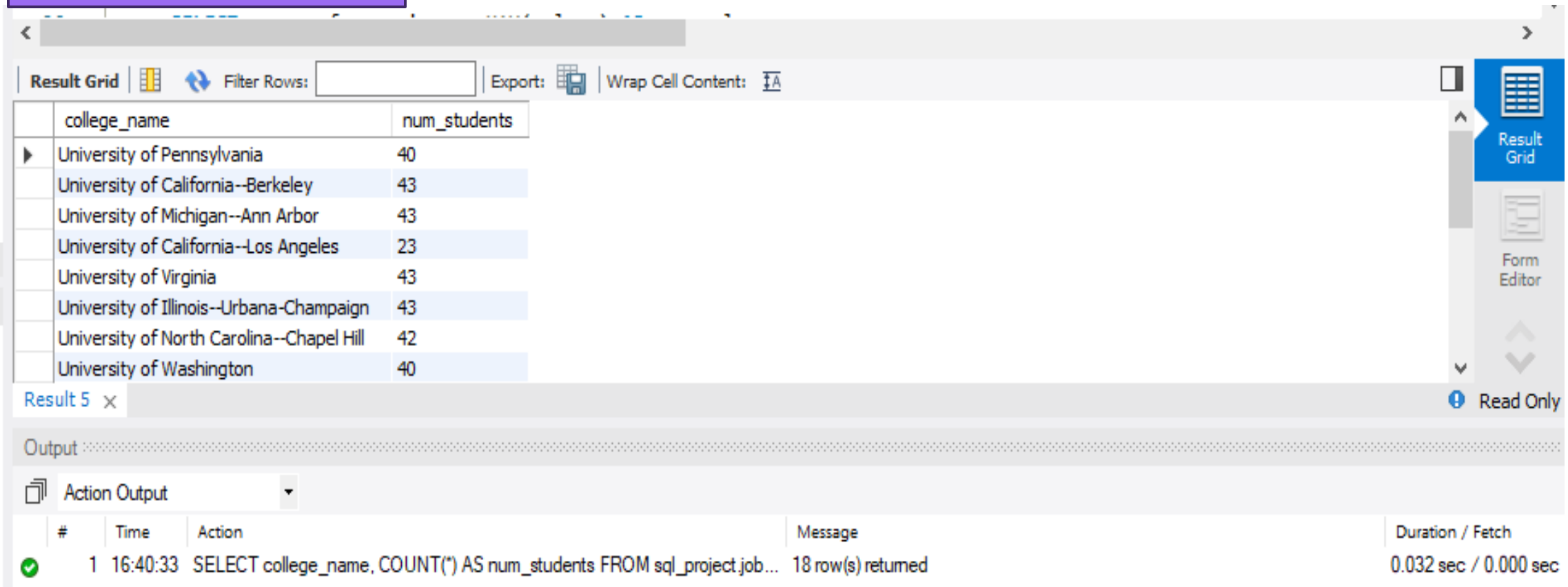
Action Output

#	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 ?

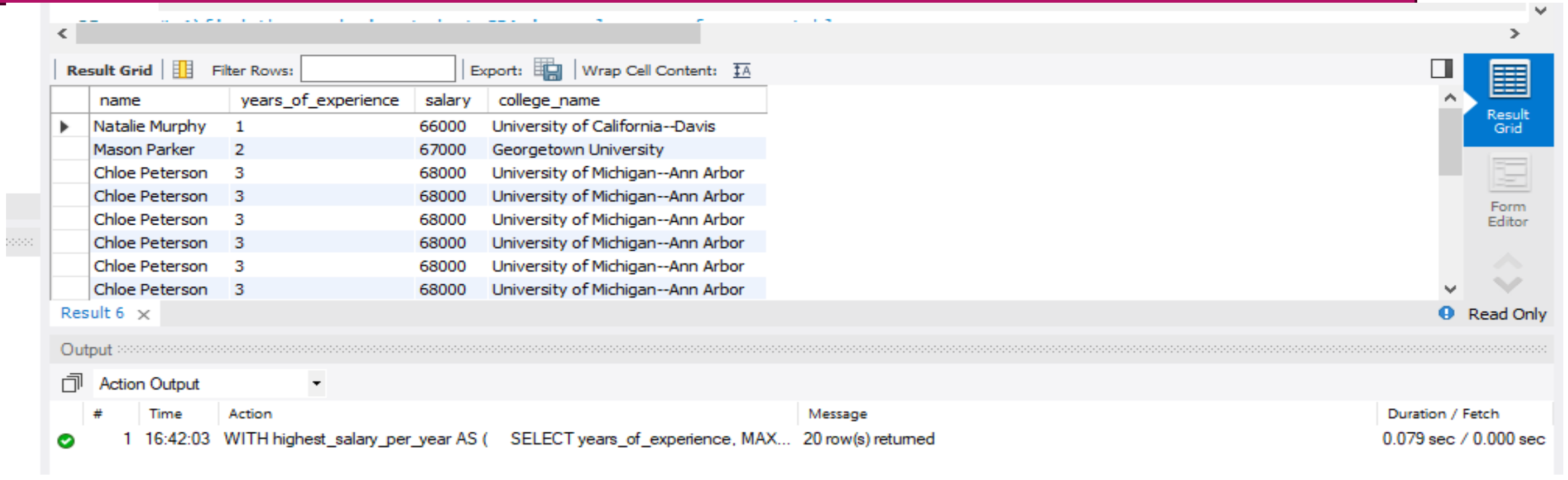
```
SELECT college_name, COUNT(*) AS num_students
FROM sql_project.job_placement
GROUP BY college_name
HAVING num_students > 10;
```

OUTPUT:



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;
```



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

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

Result 6 | Read Only

Result Grid | Form Editor

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

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:

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

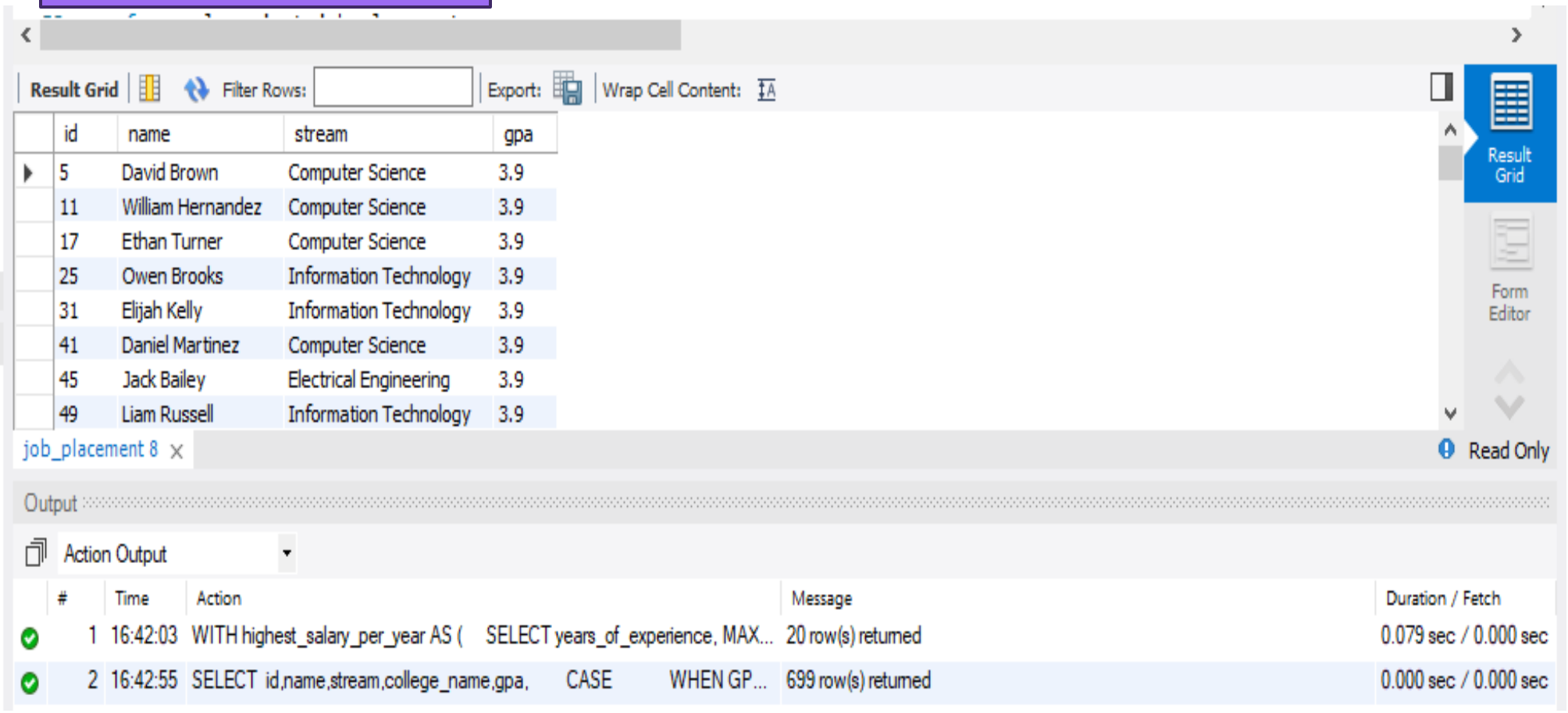
id	name	stream	college_name	gpa	student_gpa_grade
1	John Doe	Computer Science	Harvard University	3.7	B
2	Jane Smith	Electrical Engineering	Massachusetts Institute of Technology	3.6	C
3	Michael Johnson	Mechanical Engineering	Stanford University	3.8	A
4	Emily Davis	Information Technology	Yale University	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

Result Grid | Form Editor | Result 7 | Read Only

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

Result Grid | Form Editor | Read Only

job_placement 8

Output

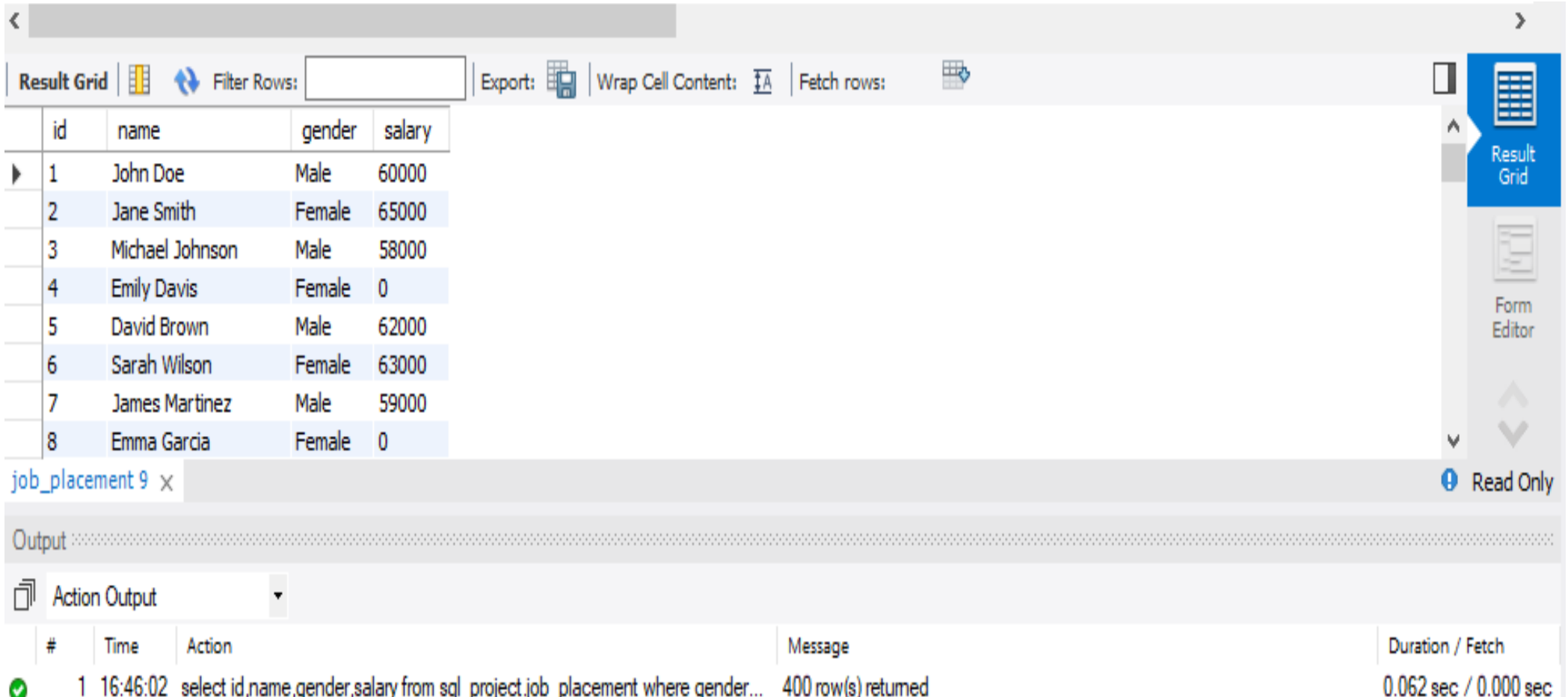
Action Output

#	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:



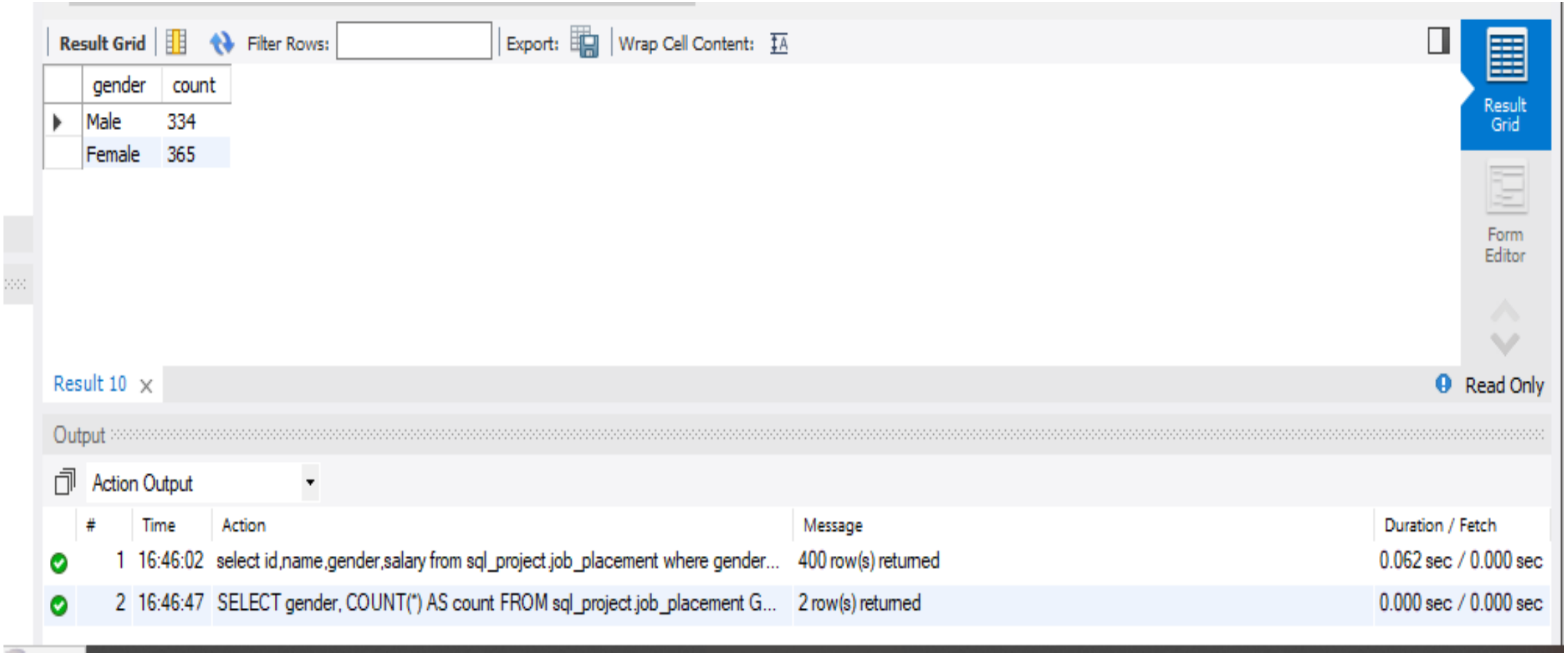
Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

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

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;
```

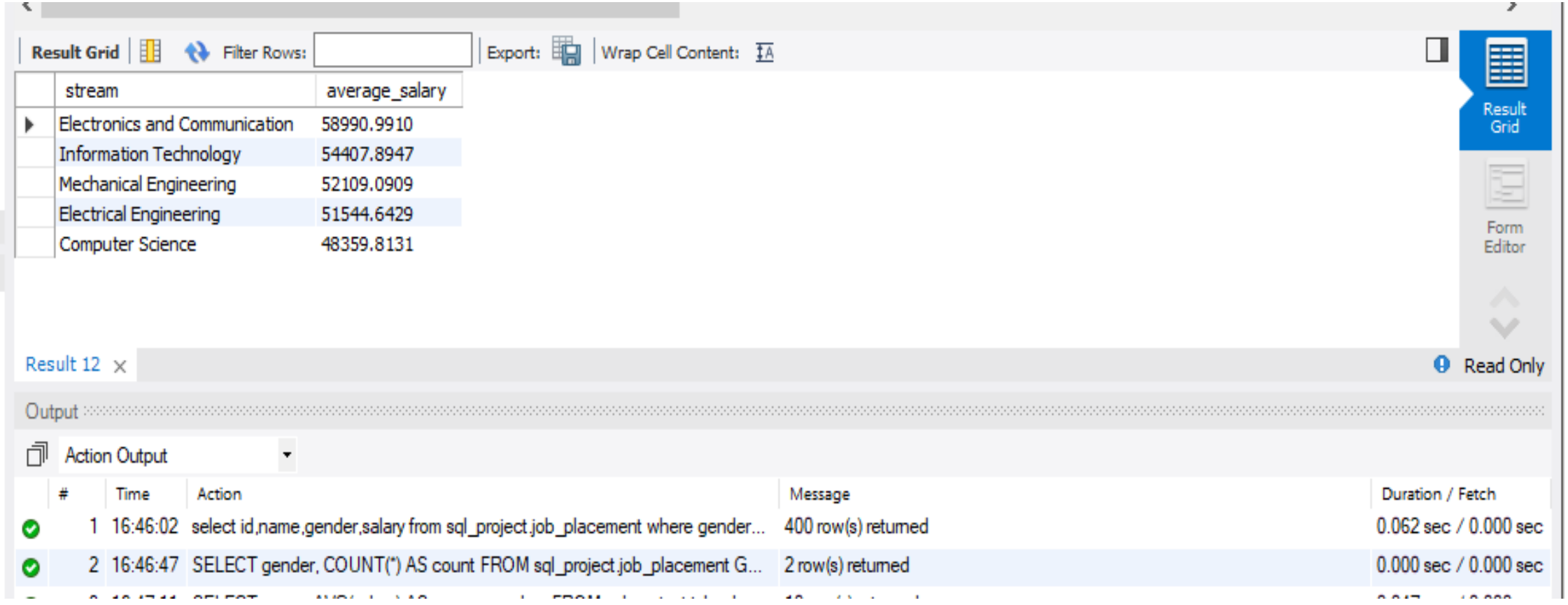
OUTPUT:



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:

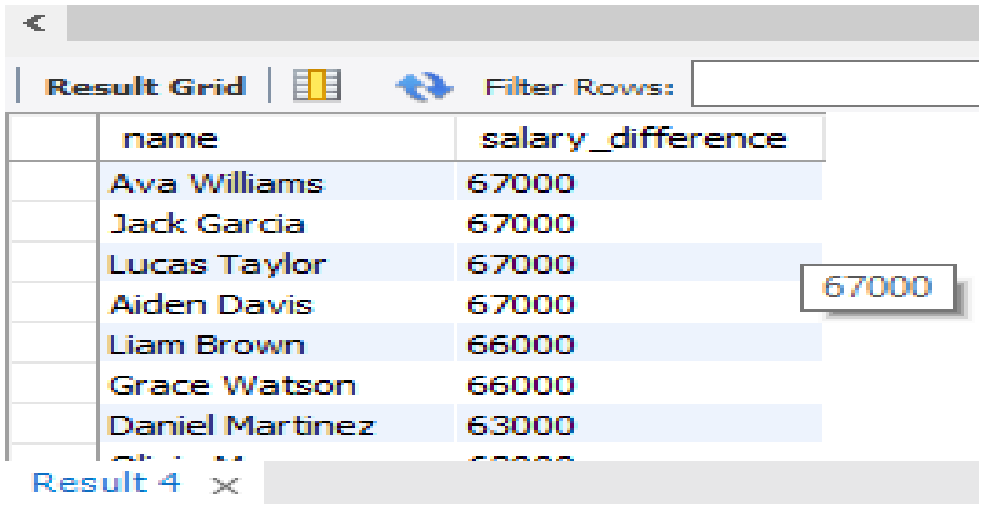


12)Identify employee with a significant difference between the highest and lowest salaries:

```
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



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

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