

The screenshot shows the SQL Workshop interface with the following SQL query entered:

```
SELECT department_id, MAX(salary) AS highest_salary,
MIN(salary) AS lowest_salary
FROM employees
GROUP BY department_id;
```

The results are displayed in a table with the following data:

DEPARTMENT_ID	HIGHEST_SALARY	LOWEST_SALARY
100	12008	6900
30	11000	2500
-	7000	7000
90	24000	17000
20	13000	6000
70	10000	10000
110	12008	8300
50	8200	2100
80	14000	6100
40	6500	6500

Example : 3

The screenshot shows the SQL Workshop interface with the following SQL query entered:

```
SELECT job_id, SUM (salary) PAYROLL
FROM employees
WHERE job_id NOT LIKE '%CLERK'
GROUP BY job_id HAVING
SUM(salary)>5000
ORDER BY SUM(salary);
```

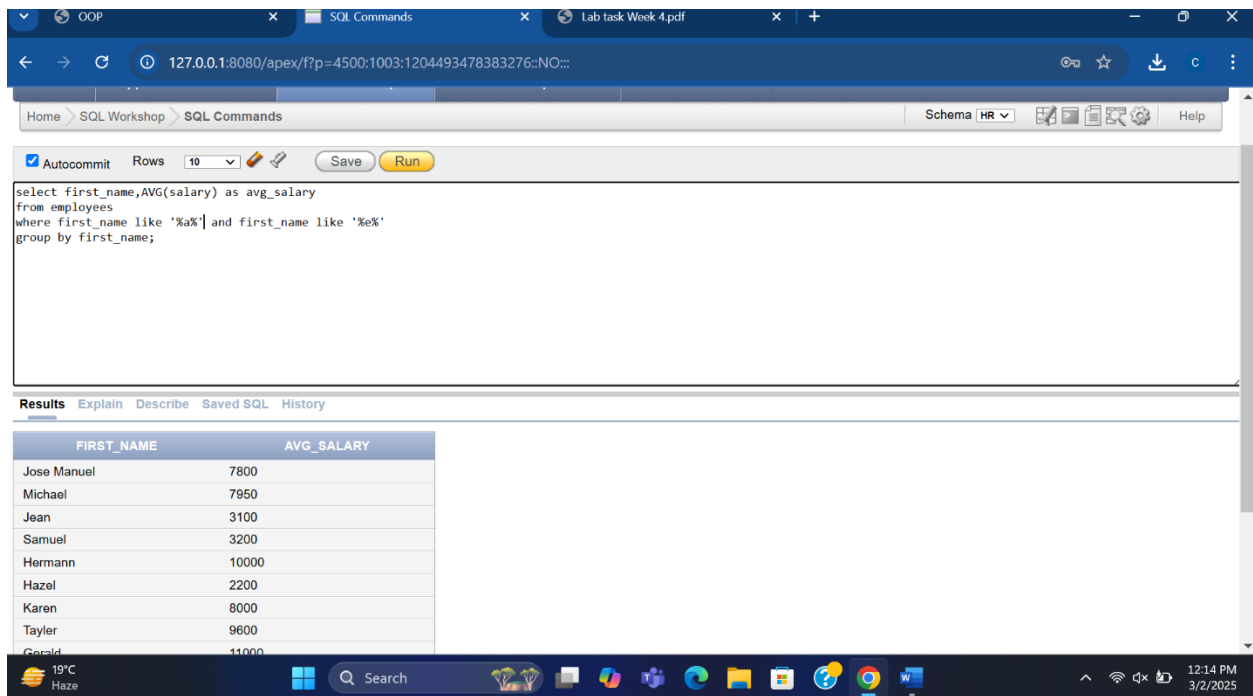
The results are displayed in a table with the following data:

JOB_ID	PAYROLL
MK_REP	6000
HR_REP	6500
AC_ACCOUNT	8300
PR_REP	10000
PU_MAN	11000
AC_MGR	12008
FI_MGR	12008
MK_MAN	13000
AD PRES	24000
IT PROG	28800

The above example displays the job title and total monthly salary for each job title with a total payroll exceeding 5000. It also exclude salespeople and sorts the list by the total monthly salary.

Question 2

Show the average salary of all those employees whose first_name contains 'a' and 'e';



The screenshot shows an SQL Workshop interface with a query editor and a results table. The query is as follows:

```
select first_name,AVG(salary) as avg_salary
from employees
where first_name like '%a%' and first_name like '%e%'
group by first_name;
```

The results table displays the first names of employees and their average salaries, grouped by first name. The table has two columns: FIRST_NAME and AVG_SALARY.

FIRST_NAME	AVG_SALARY
Jose Manuel	7800
Michael	7950
Jean	3100
Samuel	3200
Hermann	10000
Hazel	2200
Karen	8000
Tayler	9600
Gerald	11000

Question : 03

Display the highest, lowest, sum, and average salary of all employees. Label the columns Maximum, Minimum, Sum, and Average, respectively. Round your results up to the two decimal position.

SQL Commands

127.0.0.1:8080/apex/?p=4500:1003:1204493478383276::NO::

Home SQL Workshop SQL Commands Schema HR

Autocommit Rows 10 Save Run

```
select
ROUND(max(salary),2) as maximum,
ROUND(min(salary),2) as minium,
ROUND(sum(salary),2) as sum,
ROUND(avg(salary),4) as average
from employees;
```

Results Explain Describe Saved SQL History

MAXIMUM	MINIUM	SUM	AVERAGE
24000	2100	691416	6461.83

1 rows returned in 0.01 seconds Download

Application Express 4.0.2.00.09

Workspace: HR User: SYSTEM Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

Question : 4

Modify the above questions to display the minimum, maximum, sum, and average salary for each job type.

SQL Commands

127.0.0.1:8080/apex/?p=4500:1003:1204493478383276::NO::

Autocommit Rows 10 Save Run

```
SELECT
job_id AS job_type,
ROUND(MAX(salary), 2) AS maximum,
ROUND(MIN(salary), 2) AS minimum,
ROUND(SUM(salary), 2) AS sum_salary,
ROUND(AVG(salary), 2) AS average_salary
FROM employees
GROUP BY job_id;
```

Results Explain Describe Saved SQL History

JOB_TYPE	MAXIMUM	MINIMUM	SUM_SALARY	AVERAGE_SALARY
IT_PROG	9000	4200	28800	5760
AC_MGR	12008	12008	12008	12008
AC_ACCOUNT	8300	8300	8300	8300
ST_MAN	8200	5800	36400	7280
PU_MAN	11000	11000	11000	11000
AD_ASST	4400	4400	4400	4400
AD_VP	17000	17000	34000	17000
SH_CLERK	4200	2500	64300	3215
FI_ACCOUNT	9000	6900	39600	7920
FI_MGR	12008	12008	12008	12008

More than 10 rows available. Increase rows selector to view more rows.

Question : 05

Write a query to display the number of people with the same job.

The screenshot shows an Oracle APEX interface. At the top, the browser address bar displays the URL: 127.0.0.1:8080/apex/?p=4500:1003:1204493478383276::NO::: Below the address bar, there is a toolbar with a checked 'Autocommit' checkbox, a 'Rows' dropdown set to '10', and 'Save' and 'Run' buttons. The main area contains an SQL query:

```
SELECT
  job_id AS job_type,
  COUNT(*) AS employee_count
FROM employees
GROUP BY job_id;
```

Below the query editor, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying a table with two columns: 'JOB_TYPE' and 'EMPLOYEE_COUNT'.

JOB_TYPE	EMPLOYEE_COUNT
AC_ACCOUNT	1
AC_MGR	1
AD_ASST	1
AD_PRES	1
AD_VP	2
FI_ACCOUNT	5
FI_MGR	1
HR_REP	1
IT_PROG	5
MK_MAN	1

At the bottom of the table, a message states: 'More than 10 rows available. Increase rows selector to view more rows.' The Windows taskbar is visible at the very bottom, showing the time as 12:35 PM on 3/2/2025.