

Name : Khalkar Mayur

Batch -B

Assignment - 8

Group BY without Aggregate

The screenshot shows the pgAdmin 4 web interface in a browser. The browser's address bar displays the URL `http://127.0.0.1:57768/browser/`. The pgAdmin interface includes a left-hand 'Browser' tree, a top navigation bar with 'File', 'Object', 'Tools', and 'Help' menus, and a main workspace. In the 'Browser' tree, the 'Tables (4)' folder is expanded, and the 'emp' table is selected. The main workspace is divided into two tabs: 'Query Editor' and 'Query History'. The 'Query Editor' tab is active, showing a SQL query: `1 select ename from emp group by empid;`. Below the query editor, there are four tabs: 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is active, displaying a table with 10 rows of employee data. The table has two columns: 'ename' (character varying (50)) and 'empid' (integer). The data is as follows:

empid	ename
1	Aditya
2	Varsha
3	Vishnu
4	Akshay
5	Ashish
6	Ashish
7	Sonali
8	Sanket
9	Mayur
10	Amruta

The Windows taskbar at the bottom shows the system clock as 04:07 AM on 15-12-2020. An 'Activate Windows' watermark is visible in the bottom right corner of the application window.

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Group By with SUM

The screenshot shows the pgAdmin 4 web interface in a browser. The address bar displays `http://127.0.0.1:57768/browser/`. The left sidebar shows the database structure, with the `emp` table selected under the `Tables (4)` category. The main panel shows the `Query Editor` with the following SQL query:

```
1 SELECT ename, SUM(sal) as Salary from emp group by ename;
```

Below the query editor, the `Data Output` tab is active, displaying the results of the query in a table:

	ename character varying (50)	salary numeric
1	ashwini	2850.00
2	Amruta	2015.00
3	Vikram	2018.00
4	Faizan	2975.00
5	Mayur	2400.00
6	Sanket	1250.00
7	Akshay	5000.00
8	Ashish	2750.00
9	Aditya	2450.00
10	Shradhha	3000.00

A green notification box at the bottom right of the results area states: "Successfully run. Total query runtime: 122 msec. 13 rows affected."

The Windows taskbar at the bottom shows the time as 04:20 AM on 15-12-2020.

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The GROUP BY clause sorts the result In Descending Order

The screenshot shows the pgAdmin 4 web interface in a browser. The left sidebar displays the database structure, with the 'emp' table selected under 'Tables (4)'. The main area shows the 'Query Editor' with the following SQL query:

```
1 SELECT ename, SUM(sal) as Salary from emp group by ename order by sum(sal) DESC;
```

Below the query editor, the 'Data Output' tab is active, displaying the results of the query in a table. The table has two columns: 'ename' (character varying (50)) and 'salary' (numeric). The results are sorted in descending order of salary.

	ename	salary
1	Akshay	5000.00
2	Shradhha	3000.00
3	Faizan	2975.00
4	ashwini	2850.00
5	Ashish	2750.00
6	Aditya	2450.00
7	Mayur	2400.00
8	Vishnu	2050.00
9	Vikram	2018.00
10	Sonali	2016.00

A green notification box at the bottom right of the results area states: "Successfully run. Total query runtime: 222 msec. 13 rows affected."

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Group By with COUNT **SELECT ename,sum(sal) as salary_sum,count(sal)as Salary_count from emp group by ename;**

The screenshot shows the pgAdmin 4 web interface in a browser. The query editor contains the following SQL statement:

```
1 SELECT ename,sum(sal) as salary_sum,count(sal)as Salary_count from emp group by ename;
```

The results are displayed in a table with the following columns: ename, salary_sum, and salary_count. The table contains 10 rows of data.

	ename	salary_sum	salary_count
1	ashwini	2850.00	1
2	Amruta	2015.00	1
3	Vikram	2018.00	1
4	Faizan	2975.00	1
5	Mayur	2400.00	2
6	Sanket	1250.00	1
7	Akshay	5000.00	1
8	Ashish	2750.00	2
9	Aditya	2450.00	1
10	Shradhha	3000.00	1

The interface also shows a sidebar with a tree view of the database structure, including tables, columns, constraints, indexes, and triggers. The bottom of the screen shows the Windows taskbar with the time 04:25 AM on 15-12-2020.

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GROUP BY Multiple column

SELECT ename,sum(sal) as salary_sum,count(sal)as Salary_count from emp group by ename,empid order by ename;

The screenshot shows the pgAdmin 4 web interface in a browser. The query editor displays the following SQL query:

```
1 SELECT ename,sum(sal) as salary_sum,count(sal)as Salary_count from emp group by ename,empid order by ename;
```

The query results are shown in the Data Output tab, displaying a table with 10 rows and 4 columns: ename, salary_sum, salary_count, and empid.

	ename	salary_sum	salary_count	empid
1	Aditya	2450.00	1	
2	Akshay	5000.00	1	
3	Amruta	2015.00	1	
4	Ashish	800.00	1	
5	Ashish	1950.00	1	
6	ashwini	2850.00	1	
7	Faizan	2975.00	1	
8	Mayur	1600.00	1	
9	Mayur	800.00	1	
10	Sanket	1250.00	1	

The interface also shows a left sidebar with a tree view of database objects, including Tables (4), and a bottom taskbar with various application icons and system information.

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Group By Date

select ename,DATE(hiredate)from emp group by date(hiredate),ename;

The screenshot shows the pgAdmin 4 web interface in a browser. The query editor contains the following SQL statement:

```
1 select ename,DATE(hiredate)from emp group by date(hiredate),ename;
```

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

	ename character varying (50)	date date
1	Varsha	2004-06-05
2	Shradhha	2005-03-06
3	Aditya	1978-05-03
4	Sanket	2012-03-06
5	Mayur	2011-08-10
6	Mayur	2010-06-03
7	Vikram	2005-12-07
8	Vishnu	2004-06-09
9	Faizan	1999-10-05
10	Ashish	2005-12-08

The interface also shows a left sidebar with a tree view of database objects, including 'Tables (4)' and 'emp'. The bottom of the screen shows the Windows taskbar with the time 04:35 AM on 15-12-2020.

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Having Clause With Sum

select ename,sum(sal),count(ename)from emp group by ename having sum(sal)>2500;

The screenshot shows the pgAdmin 4 web interface in a browser. The query editor contains the following SQL query:

```
1 select ename,sum(sal),count(ename)from emp group by ename having sum(sal)>2500;
```

The query has been executed, and the results are displayed in the Data Output tab. The results are as follows:

	ename character varying (50)	sum numeric	count bigint
1	ashwini	2850.00	1
2	Faizan	2975.00	1
3	Akshay	5000.00	1
4	Ashish	2750.00	2
5	Shradhha	3000.00	1

The Windows taskbar at the bottom shows the time as 04:40 AM on 15-12-2020.

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Having Clause With Sum& Count

The screenshot shows the pgAdmin 4 web interface in a browser. The query editor contains the following SQL statement:

```
1 select ename,sum(sal),count(ename) from emp group by ename having sum(sal)>2500;
```

The results are displayed in the Data Output tab as a table with 5 rows:

	ename	sum	count
	character varying (50)	numeric	bigint
1	ashwini	2850.00	1
2	Faizan	2975.00	1
3	Akshay	5000.00	1
4	Ashish	2750.00	2
5	Shradhha	3000.00	1

The Windows taskbar at the bottom shows the date and time as 04:40 AM on 15-12-2020.

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Assignment - 8

Use Of SUM() & COUNT()

pgAdmin 4 interface showing a query execution result.

Query Editor:

```
1 select * from emp;
```

Data Output:

empid	ename	job	mgr	hiredate	sal	comm	deptno
1	Mayur	CLERK	7902	2010-06-03	800.00	0.00	
2	Ashish	CLERK	7902	1998-10-19	800.00	0.00	
3	Sanket	SALESMAN	7698	2012-03-06	1250.00	500.00	
4	Faizan	MANAGER	7839	1999-10-05	2975.00	[null]	
5	Ashish	SALESMAN	7698	2005-12-08	1950.00	1400.00	
6	ashwini	MANAGER	7839	1958-06-02	2850.00	[null]	
7	Aditya	MANAGER	7839	1978-05-03	2450.00	[null]	
8	Shradhha	ANALYST	7566	2005-03-06	3000.00	[null]	
9	Akshay	PRESIDENT	[null]	0209-06-09	5000.00	0.00	

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pgAdmin 4

http://127.0.0.1:57768/browser/

Apps How to Calculate G... Gmail YouTube Union Bank of India... Maps C Programming La... PHP CRUD Create... Php : How To Searc...

pgAdmin File Object Tools Help

Browser Dashboard Properties SQL Statistics Dependencies Dependents public.student_... public.emp/em... employee/i < >

Collations Domains FTS Configuration FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized View 1.3 Sequences Tables (4)

- con
- contacts
- emp
 - Columns
 - Constraint
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- empd
- Trigger Functions
- Tunes

Query Editor Query History

```
1 select ename,SUM(sal),count(ename) from emp group by ename ;
```

Data Output Explain Messages Notifications

	ename character varying (50)	sum numeric	count bigint
1	ashwini	2850.00	1
2	Amruta	2015.00	1
3	Vikram	2018.00	1
4	Faizan	2975.00	1
5	Mayur	2400.00	2
6	Sanket	1250.00	1
7	Akshay	5000.00	1
8	Ashish	2750.00	2
9	Aditya	2450.00	1
10	Shradhha	3000.00	1

Activate Windows
Go to Settings to activate Windows.

Type here to search

04:47 AM
15-12-2020