

PRACTICAL ON GROUP BY HAVING CLAUSES

description

syntax for group clause:

- SELECT column1, function_name(column2)
FROM table_name
WHERE condition
GROUP BY column1, column2
ORDER BY column1, column2;

syntax for order:

- SELECT * FROM table_name ORDER BY column_name ASC | DESC
//Where
table_name: name of the table.
column_name: name of the column according to which the data
is needed to be arranged.
ASC: to sort the data in ascending order.
DESC: to sort the data in descending order.
| : use either ASC or DESC to sort in ascending or descending order//

syntax for having clause

- SELECT col_1, function_name(col_2)
FROM tablename
WHERE condition
GROUP BY column1, column2
HAVING Condition
ORDER BY column1, column2;

syntax for where clause

- SELECT column1,column2 FROM table_name WHERE column_name operator value;

table creation;

```
SQL> create table emp1234
 2 (
 3 id number(5) not null primary key,
 4 name char(10),
 5 department char(8),
 6 salary number(6),
 7 gender char(6),
 8 comm number(6),
 9 city char(8)
10 );
```

Table created.

```
SQL> select * from emp1234;
```

ID	NAME	DEPARTME	SALARY	GENDER	COMM	CITY
1001	john	it	35000	male	3500	london
1002	smith	hr	45000	female	4500	mumbai
1003	jams	finance	50000	male	5000	delhi
1004	mike	finance	50000	male	0	london
1005	linda	hr	75000	female	0	mumbai
1006	anurag	it	35000	male	0	london
1007	priyanla	hr	45000	female	0	mumbai
1008	sambit	it	55000	male	5500	london
1009	pranaya	it	57000	male	5700	london
10010	hina	hr	75000	female	7500	mumbai
10011	mai	finance	75000	female	7500	mumbai

ID	NAME	DEPARTME	SALARY	GENDER	COMM	CITY
10012	laxmi	it	35000	female	3500	london
10013	nikhil	it	35000	male	3500	london

13 rows selected.

Q.1 How many employees working in each department?

```
SQL> select department,count(*) as total_employee from emp1234 group by department;
```

DEPARTME	TOTAL_EMPLOYEE
finance	3
it	6
hr	4

Q.2 Find the total salary given to all employees department wise

```
SQL> select department,sum(salary) as total_salary from emp1234 group by department;
```

DEPARTME	TOTAL_SALARY
finance	175000
it	252000
hr	240000

Q.3 Display total no of employees lives per city

```
SQL> select city,count(*) as city_employee from emp1234 group by city;
```

CITY	CITY_EMPLOYEE
delhi	1
mumbai	5
london	7

Q.4 Display count of male and female employees working for each department

```
SQL> select department,gender,count(*) as total_employe_count
2 from emp1234 group by department,gender
3 order by department;
```

DEPARTME	GENDER	TOTAL_EMPLOYE_COUNT
finance	female	1
finance	male	2
hr	female	4
it	female	1
it	male	5

Q.5 Find the total salaries and the total number of employees by City, and by gender

```
SQL> select city,gender,sum(salary) as total_salary,count(id) as total_employee
2 from emp1234
3 group by city,gender;
```

CITY	GENDER	TOTAL_SALARY	TOTAL_EMPLOYEE
mumbai	female	315000	5
london	female	35000	1
london	male	267000	6
delhi	male	50000	1

Q.6 Display average salary given for every department

```
SQL> select department,avg(salary) as avg_salary from emp1234
2 group by department;
```

DEPARTME	AVG_SALARY
finance	58333.3333
it	42000
hr	60000

Q.7 Total salary given to all employees who are working in London

```
SQL> select city,sum(salary) as total_salary from emp1234
  2  where city='london'
  3  group by city;
```

CITY	TOTAL_SALARY
london	302000

Q.8 Retrieve the total salary of all the Male employees who are working in London

```
SQL> select city,sum(salary) as total_salary from emp1234
  2  where gender='male'
  3  group by city
  4  having city='london';
```

CITY	TOTAL_SALARY
london	267000

Q.9 Display department names who are giving salary more than 150000

```
SQL> SELECT Department, sum(salary) as Salary
  2  FROM emp1234
  3  GROUP BY department
  4  HAVING SUM(salary) > 150000;
```

DEPARTME	SALARY
finance	175000
it	252000
hr	240000

Q.10 Show department names who strength is more than 3

```
SQL>
SQL>
SQL>
SQL>
SQL> SELECT department
  2  FROM emp1234
  3  GROUP BY department
  4  HAVING COUNT(*) > 3;
```

DEPARTME
it
hr