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SQL Tasks

1. Display all the records

The screenshot shows the SQL Developer interface. The SQL Editor contains the following code:

```
6
7 • create table emp(eid int, ename varchar(10));
8 • select *from emp;
9 • insert into emp values("343", 'Mohan');
10 • alter table emp add sal int;
11 • alter table emp add loc varchar(10);
12 • update emp set sal=25000;
13 • update emp set loc='Hyd';
14 • insert into emp values("570", 'Rupa', 20000, 'chennai');
15 • insert into emp values("579", 'Ali', 16500, 'Hyd');
```

The Result Grid shows the following data:

eid	ename	sal	loc
254	Prem	20000	chennai
806	Siva	22500	Bnglr
420	Richa	22000	Hyd
560	Satya	21000	Mum
362	Janvi	20000	chennai
222	Sunny	195000	Bnglr
555	Mridul	24000	Hyd
389	Rohit	15000	Mum
108	Suresh	20000	chennai

The Output window shows the following messages:

#	Time	Action	Message
65	15:06:33	insert into emp values("999", 'Ritu', 25000, 'Bnglr')	1 row(s) affected
66	15:06:42	select *from emp LIMIT 0, 1000	20 row(s) returned

2. Display all the records order by location

The screenshot shows the SQL Developer interface. The SQL Editor contains the following code:

```
26 • insert into emp values("222", 'Sunny', 195000, 'Bnglr');
27 • insert into emp values("555", 'Mridul', 24000, 'Hyd');
28 • insert into emp values("389", 'Rohit', 15000, 'Mum');
29 • insert into emp values("108", 'Suresh', 20000, 'chennai');
30 • insert into emp values("165", 'Janvi', 20000, 'Mum');
31 • insert into emp values("199", 'Ali', 19500, 'Hyd');
32 • insert into emp values("999", 'Ritu', 25000, 'Bnglr');
33
34 • select *from emp order by loc;
35
```

The Result Grid shows the following data:

eid	ename	sal	loc
806	Siva	22500	Bnglr
222	Sunny	195000	Bnglr
999	Ritu	25000	Bnglr
570	Rupa	20000	chennai
254	Prem	20000	chennai
362	Janvi	20000	chennai
108	Suresh	20000	chennai
343	Mohan	25000	Hyd
579	Ali	16500	Hyd

The Output window shows the following messages:

#	Time	Action	Message
66	15:06:42	select *from emp LIMIT 0, 1000	20 row(s) returned
67	15:10:11	select *from emp order by loc LIMIT 0, 1000	20 row(s) returned

3. Display all the records group by salary

The screenshot shows the SQL Developer interface with a query window titled 'Query 1'. The query contains the following SQL statements:

```
31 • insert into emp values("199", 'Ali', 19500, 'Hyd');
32 • insert into emp values("999", 'Ritu', 25000, 'Bnglr');
33 • update emp set sal=22500 where eid=420;
34
35 • select *from emp order by loc;
36
37 • select count(eid), sal from emp group by sal ;
38
39
```

Below the query window, the 'Result Grid' shows the output of the query. The table has two columns: 'count(eid)' and 'sal'. The data is as follows:

count(eid)	sal
2	25000
5	20000
5	16500
1	30000
5	22500
2	19500

The 'Output' window shows the execution log with the following entries:

#	Time	Action	Message
92	15:40:57	update emp set sal=22500 where eid=420	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
93	15:41:04	select count(eid), sal from emp group by sal LIMIT 0, 1000	6 row(s) returned

4. Display all the records group by location

The screenshot shows the SQL Developer interface with a query window titled 'Query 1'. The query contains the following SQL statements:

```
34
35 • select *from emp order by loc;
36
37 • select count(eid), sal from emp group by sal ;
38
39 • select count(eid), loc from emp group by loc ;
40
41
42
```

Below the query window, the 'Result Grid' shows the output of the query. The table has two columns: 'count(eid)' and 'loc'. The data is as follows:

count(eid)	loc
7	Hyd
4	chennai
5	Bnglr
4	Mum

The 'Output' window shows the execution log with the following entries:

#	Time	Action	Message
95	15:45:23	update emp set loc='Mum' where eid=520	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
96	15:45:31	select count(eid), loc from emp group by loc LIMIT 0, 1000	4 row(s) returned

5. Display all the records group by location, name

Query 1 x

Limit to 1000 rows

```
35 • select *from emp order by loc;
36
37 • select count(eid), sal from emp group by sal ;
38
39 • select count(eid), loc, ename from emp group by loc, ename ;
40
41
42
43
```

Result Grid

	count(eid)	loc	ename
2	Hyd	Mohan	
2	chennai	Rupa	
3	Hyd	Ali	
1	Bnglr	Hari	
1	Mum	Seetha	
1	Hyd	Surya	
1	Bnglr	Ram	

Result 26 x

Read Only

Output

Action Output

#	Time	Action	Message
101	15:49:11	update emp set ename='Rupa' where eid=254	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
102	15:49:17	select count(eid), loc, ename from emp group by loc, ename LIMIT 0, 1000	16 row(s) returned

6. Display all the records group by location, name, salary

Limit to 1000 rows

```
35 • select *from emp order by loc;
36
37 • select count(eid), sal from emp group by sal ;
38
39 • select count(eid), loc, ename from emp group by loc, ename ;
40
41 • select count(eid), loc, ename, sal from emp group by loc, ename, sal ;
42
43
```

Result Grid

	count(eid)	loc	ename	sal
1	Hyd	Mohan	25000	
2	chennai	Rupa	20000	
2	Hyd	Ali	16500	
1	Bnglr	Hari	30000	
1	Mum	Seetha	16500	
1	Hyd	Surya	16500	
1	Bnglr	Ram	22500	
1	Bnglr	Siva	22500	
1	Hyd	Mohan	22500	

Result 27 x

Read Only

Output

Action Output

#	Time	Action	Message
102	15:49:17	select count(eid), loc, ename from emp group by loc, ename LIMIT 0, 1000	16 row(s) returned

7. Display Second least salary

The screenshot shows the SQL Developer interface with a query window titled 'Query 1'. The query is as follows:

```
37 • select count(eid), sal from emp group by sal ;
38
39 • select count(eid), loc, ename from emp group by loc, ename ;
40
41 • select count(eid), loc, ename, sal from emp group by loc, ename, sal ;
42
43 • select min(sal) from emp where sal > (select min(sal) from emp);
44
45
```

The 'Result Grid' shows the result of the query:

min(sal)
19500

The 'Output' pane shows the 'Action Output' table:

#	Time	Action	Message
✓ 108	15:57:35	select min(sal) from emp where sal < (select min(sal) from emp) LIMIT 0, 1000	1 row(s) returned
✓ 109	15:57:49	select min(sal) from emp where sal > (select min(sal) from emp) LIMIT 0, 1000	1 row(s) returned

8. Display list of employees whose location is hyderabad and salary is less than 20000

The screenshot shows the SQL Developer interface with a query window titled 'Query 1'. The query is as follows:

```
38
39 • select count(eid), loc, ename from emp group by loc, ename ;
40
41 • select count(eid), loc, ename, sal from emp group by loc, ename, sal ;
42
43 • select min(sal) from emp where sal > (select min(sal) from emp);
44
45 • select * from emp where loc='Hyd' having sal < 20000
46
```

The 'Result Grid' shows the result of the query:

eid	ename	sal	loc
579	Ali	16500	Hyd
464	Surya	16500	Hyd
782	Ali	16500	Hyd
199	Ali	19500	Hyd

The 'Output' pane shows the 'Action Output' table:

#	Time	Action	Message
✗ 112	16:26:27	select * from emp where loc='Hyd', sal < 20000	Error Code: 1064. You have an error in your SQL syntax; check the manual
✓ 113	16:37:15	select * from emp where loc='Hyd' having sal < 20000 LIMIT 0, 1000	4 row(s) returned

9. Display Highest salary in each location

The screenshot shows the SQL Developer interface with a query window titled 'Day1*' containing the following SQL code:

```
46
47 • select min(sal) from emp where sal>(select min(sal) from emp);
48
49 • select * from emp where loc='Hyd' having sal<20000;
50
51 • select loc,max(sal) from emp group by loc;
52
53
54
```

The 'Result Grid' shows the output of the query:

loc	max(sal)
Hyd	25000
chennai	20000
Bnglr	30000
Mum	22500

The 'Output' window shows the 'Action Output' table:

#	Time	Action	Message
5	10:08:20	select loc,max(sal) from emp group by loc LIMIT 0, 1000	4 row(s) returned
6	10:09:30	select loc,max(sal) from emp group by loc LIMIT 0, 1000	4 row(s) returned

10. Display total salary in each location

The screenshot shows the SQL Developer interface with a query window titled 'Day1*' containing the following SQL code:

```
46
47 • select min(sal) from emp where sal>(select min(sal) from emp);
48
49 • select * from emp where loc='Hyd' having sal<20000;
50
51 • select loc,max(sal) from emp group by loc;
52
53 • select loc,sum(sal) from emp group by loc;
54
```

The 'Result Grid' shows the output of the query:

loc	sum(sal)
Hyd	139000
chennai	80000
Bnglr	119500
Mum	75500

The 'Output' window shows the 'Action Output' table:

#	Time	Action	Message
6	10:09:30	select loc,max(sal) from emp group by loc LIMIT 0, 1000	4 row(s) returned
7	10:12:17	select loc,sum(sal) from emp group by loc LIMIT 0, 1000	4 row(s) returned

11. Display total salary in each department

Day1* x

Limit to 1000 rows

```
55 • alter table emp add dept varchar(10);
56 • select * from emp order by eid;
57 • update emp set dept='Sales' where eid=782;
58
59 • select dept,sum(sal) from emp group by dept;
60
61
62
```

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

dept	sum(sal)
IT	202000
Sales	117000
HR	95000

Result 12 x Read Only

12. Display highest salary in each department in a location

Day1* x

Limit to 1000 rows

```
58
59 • select dept,sum(sal) from emp group by dept;
60
61 • select dept,loc,max(sal) from emp group by dept, loc order by dept;
62
63 • select ename,sal from emp order by sal;
```

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

dept	loc	max(sal)
HR	Bnglr	22500
HR	chennai	20000
HR	Hyd	16500
HR	Mum	16500
IT	Bnglr	30000
IT	chennai	20000
IT	Hyd	25000
IT	Mum	22500
Sales	Bnglr	25000
Sales	Hyd	16500
Sales	Mum	20000

Result 21 x Read Only

13. Display list of employees with names order by salary

Day1* x

Limit to 1000 rows

```
61 • select dept,loc,max(sal) from emp group by dept, loc order by dept;
62
63 • select eid,ename,sal from emp order by sal;
64
```

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

	eid	ename	sal
▶	579	Ali	16500
	520	Seetha	16500
	464	Surya	16500
	782	Ali	16500
	389	Rohit	16500
	222	Sunny	19500
	199	Ali	19500
	570	Rupa	20000
	254	Rupa	20000
	362	Janvi	20000
	108	Suresh	20000
	165	Janvi	20000
	603	Ram	22500
	806	Siva	22500
	420	Mohan	22500

emp 22 x

Output

Action Output

#	Time	Action	Message
✓ 59	10:48:13	select dept,loc,max(sal) from emp group by dept, loc order by dept LIMIT 0, 1000	11 row(s) returned
✓ 60	10:51:40	select eid,ename,sal from emp order by sal LIMIT 0, 1000	20 row(s) returned