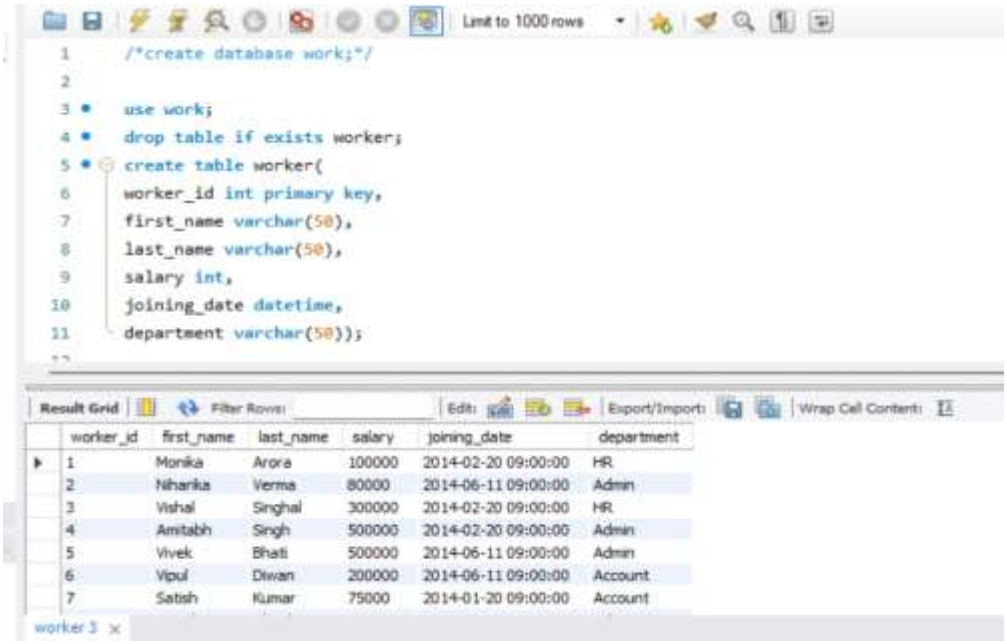
SQL Assessment

- **Create Table Worker**

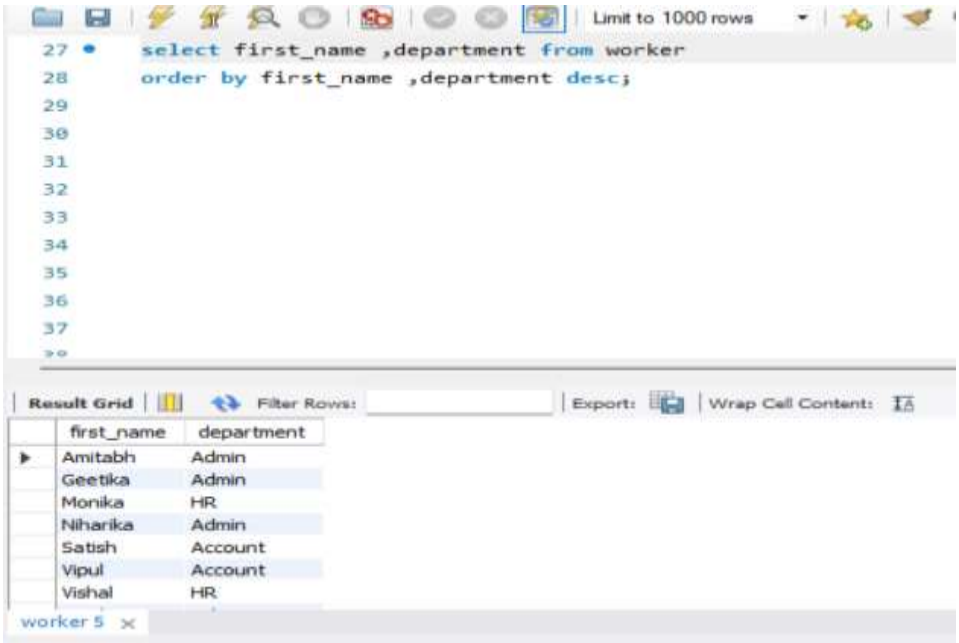


```
/*create database work;*/

use work;
drop table if exists worker;
create table worker(
worker_id int primary key,
first_name varchar(50),
last_name varchar(50),
salary int,
joining_date datetime,
department varchar(50));
```

worker_id	first_name	last_name	salary	joining_date	department
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
2	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
3	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
4	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
6	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
7	Satish	Kumar	75000	2014-01-20 09:00:00	Account

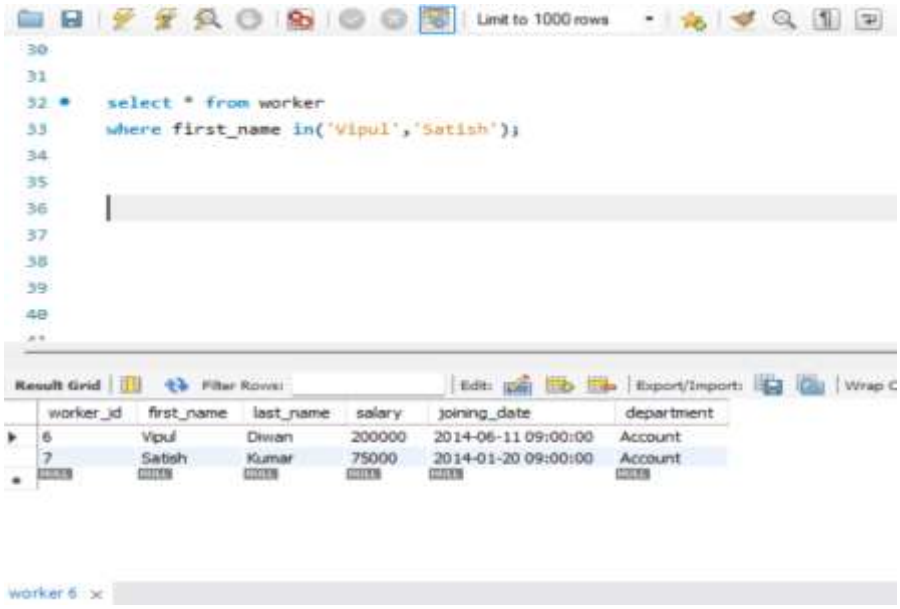
1. **Write an SQL query to print all Worker details from the Worker table order by FIRST_NAME Ascending and DEPARTMENT Descending.**



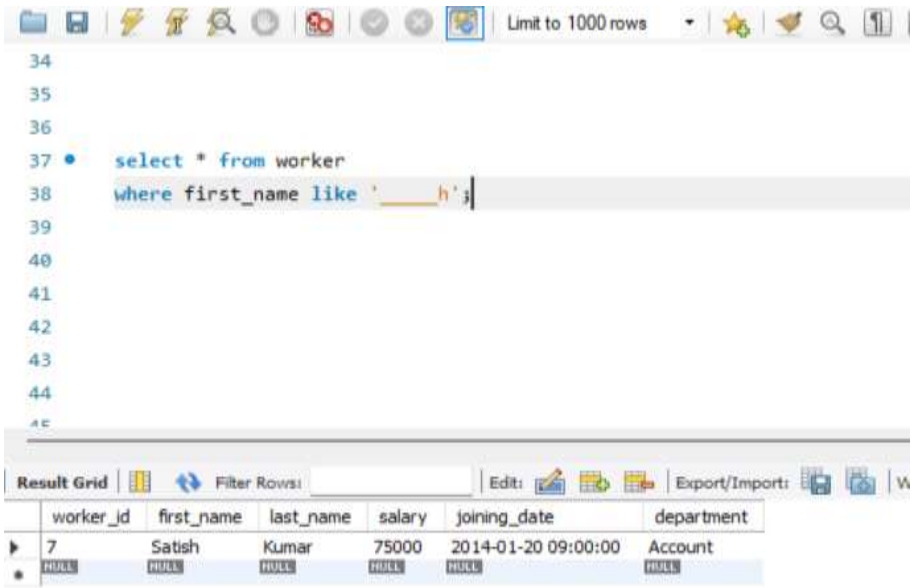
```
select first_name ,department from worker
order by first_name ,department desc;
```

first_name	department
Amitabh	Admin
Geetika	Admin
Monika	HR
Niharika	Admin
Satish	Account
Vipul	Account
Vishal	HR

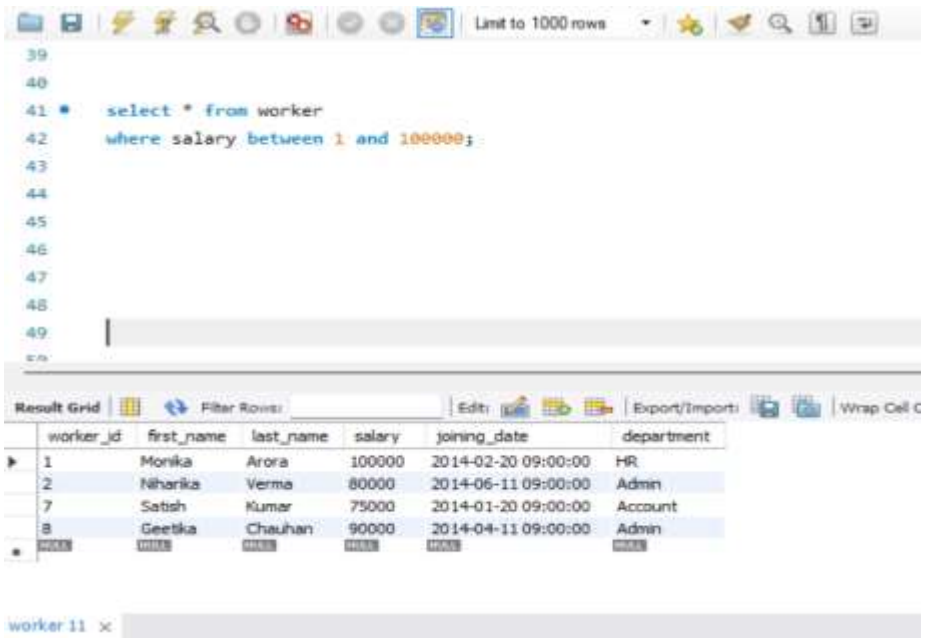
2. **Write an SQL query to print details for Workers with the first names “Vipul” and “Satish” from the Worker table.**



3. **Write an SQL query to print details of the Workers whose FIRST_NAME ends with ‘h’ and contains six alphabets.**



4. **Write an SQL query to print details of the Workers whose SALARY lies between 1**



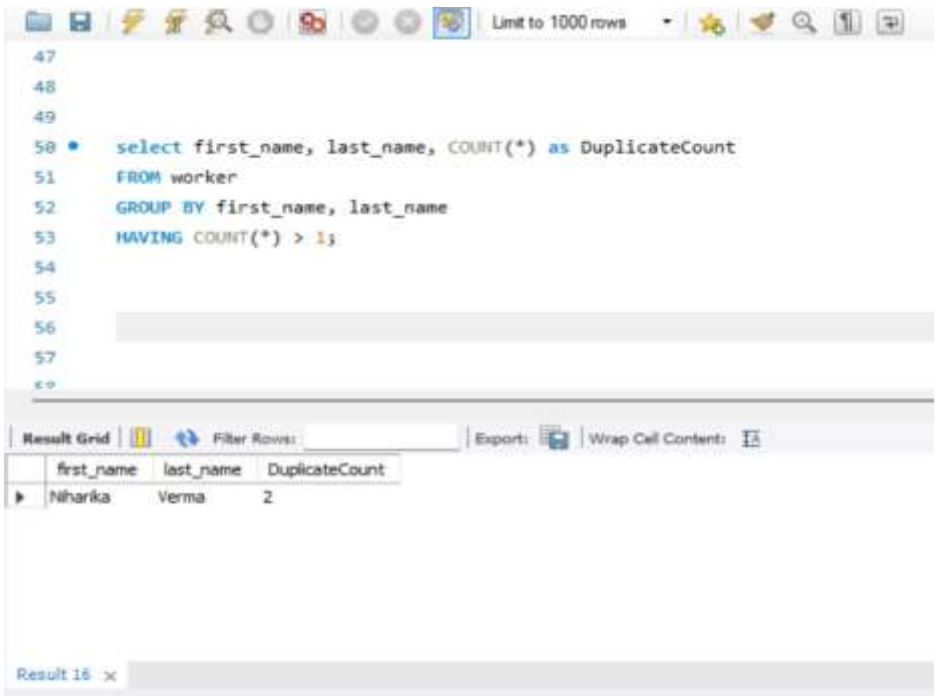
```
39
40
41 •  select * from worker
42    where salary between 1 and 100000;
43
44
45
46
47
48
49
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell C

worker_id	first_name	last_name	salary	joining_date	department
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
2	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
7	Satish	Kumar	75000	2014-01-20 09:00:00	Account
8	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

worker 11 ×

5. **Write an SQL query to fetch duplicate records having matching data in some fields of a table.**



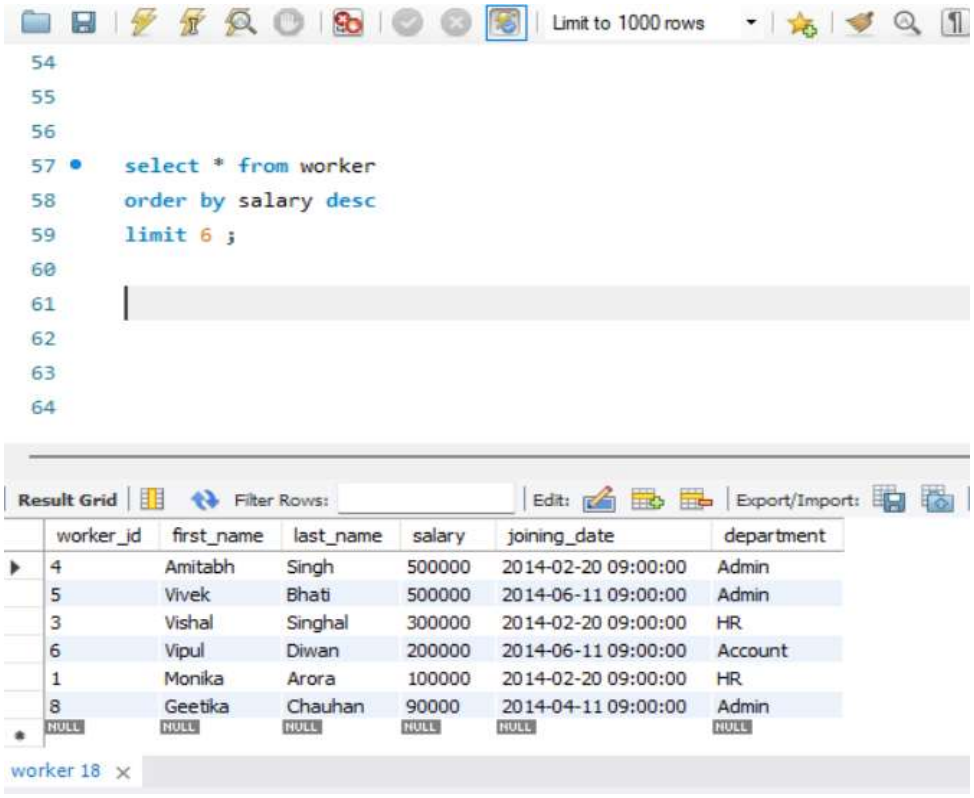
```
47
48
49
50 •  select first_name, last_name, COUNT(*) as DuplicateCount
51    FROM worker
52    GROUP BY first_name, last_name
53    HAVING COUNT(*) > 1;
54
55
56
57
```

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

first_name	last_name	DuplicateCount
Niharika	Verma	2

Result 16 ×

6. **Write an SQL query to show the top 6 records of a table.**



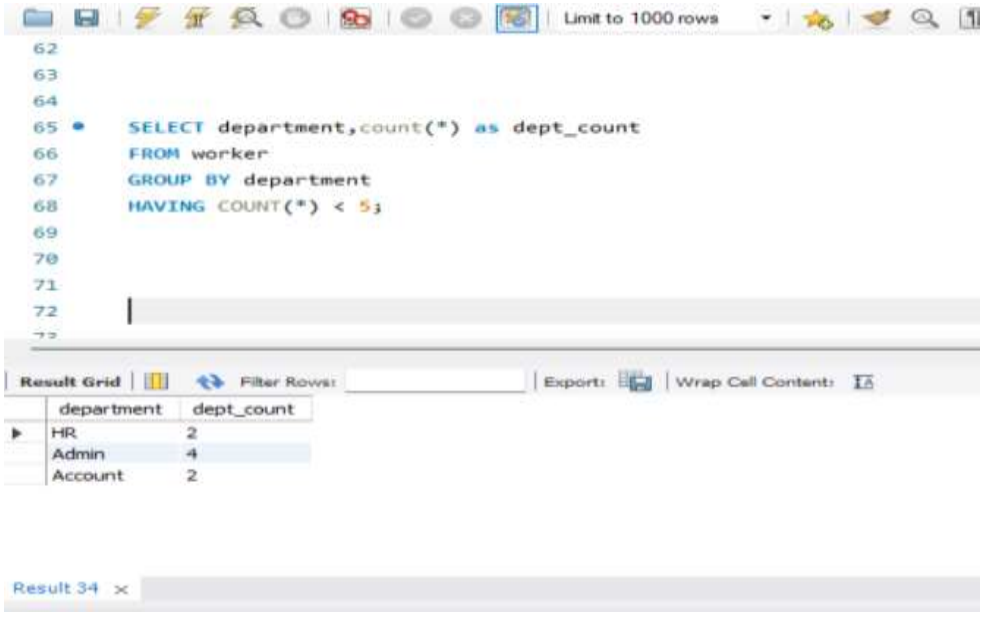
```
54
55
56
57 •  select * from worker
58    order by salary desc
59    limit 6 ;
60
61
62
63
64
```

Result Grid | Filter Rows: | Edit: | Export/Import:

worker_id	first_name	last_name	salary	joining_date	department
4	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
3	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
6	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
8	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin
NULL	NULL	NULL	NULL	NULL	NULL

worker 18 ×

7. **Write an SQL query to fetch the departments that have less than five people in them.**



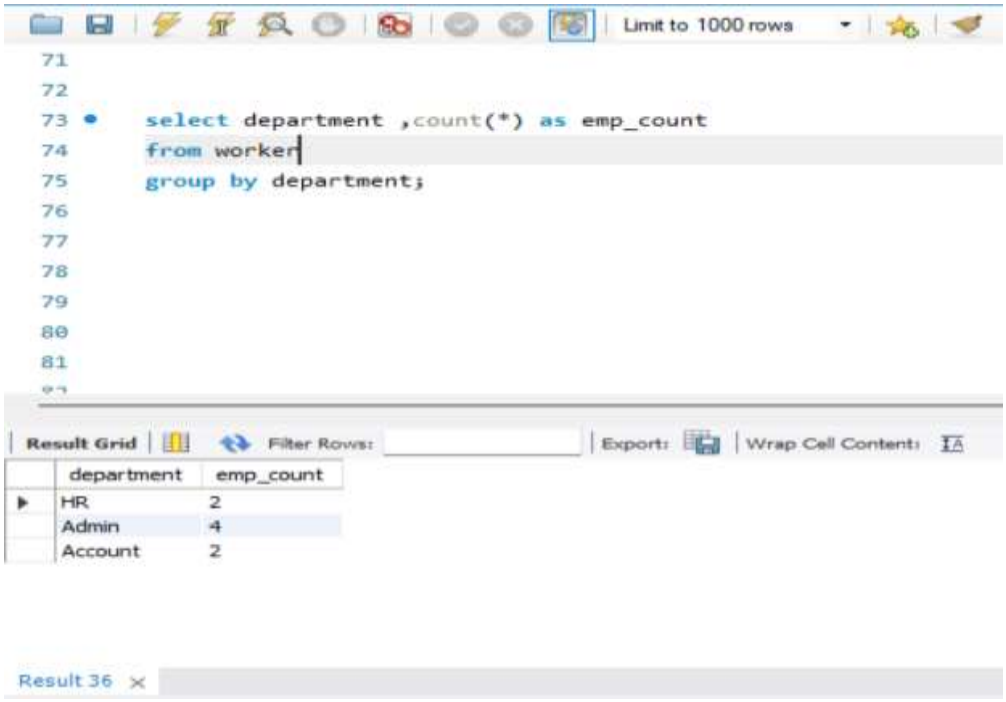
```
62
63
64
65 •  SELECT department,count(*) as dept_count
66    FROM worker
67    GROUP BY department
68    HAVING COUNT(*) < 5;
69
70
71
72
```

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

department	dept_count
HR	2
Admin	4
Account	2

Result 34 ×

8. **Write an SQL query to show all departments along with the number of people in there.**



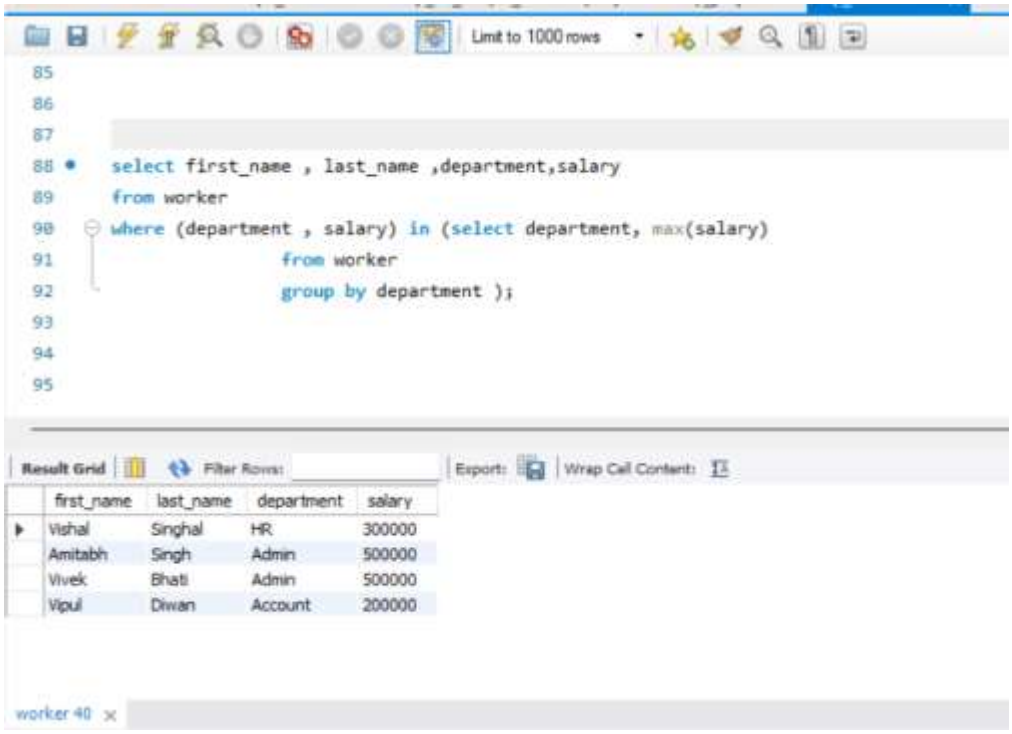
```
71
72
73 •    select department ,count(*) as emp_count
74      from worker
75      group by department;
76
77
78
79
80
81
```

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

department	emp_count
HR	2
Admin	4
Account	2

Result 36

9. **Write an SQL query to print the name of employees having the highest salary in each department**



```
85
86
87
88 •    select first_name , last_name ,department,salary
89      from worker
90      where (department , salary) in (select department, max(salary)
91                    from worker
92                    group by department );
93
94
95
```

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

first_name	last_name	department	salary
Vishal	Singhal	HR	300000
Amitabh	Singh	Admin	500000
Vivek	Bhati	Admin	500000
Vipul	Diwan	Account	200000

worker 40