

```
SELECT last_name, salary*12 annsal, job_id, department_id, hire_date
FROM employees
ORDER BY annsal;
```

#### Example 4

#### Sorting by Multiple columns

```
SELECT last_name, salary, job_id, department_id, hire_date
FROM employees
ORDER BY department_id, salary DESC;
```

#### Find the Solution for the following:

1. Create a query to display the last name and salary of employees earning more than 12000.

Select last\_name, salary from employees where salary > 12000;

2. Create a query to display the employee last name and department number for employee number 176.

select last\_name, department\_id from employees where  
employee\_id = 176;

3. Create a query to display the last name and salary of employees whose salary is not in the range of 5000 and 12000. (hints: not between)

Select last\_name, salary from employees where salary  
NOT BETWEEN 5000 AND 12000;

4. Display the employee last name, job ID, and start date of employees hired between February 20, 1998 and May 1, 1998. order the query in ascending order by start date. (hints: between)

Select last\_name, job\_id, start\_date from employees  
where start\_date Between '1998-02-20' AND '1998-05-01'  
Order by start date ASC;

5. Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by name. (hints: in, orderby)

Select last-name, department-id from employees  
where department-id IN (20, 50) Order by last-name ASC;

6. Display the last name and salary of all employees who earn between 5000 and 12000 and are in departments 20 and 50 in alphabetical order by name. Label the columns EMPLOYEE, MONTHLY SALARY respectively. (hints: between, in)

Select last-name AS Employee, salary AS MONTHLY-SALARY  
FROM employees where salary Between 5000 and 12000  
AND department-id IN (20, 50)  
Order by last-name ASC;

7. Display the last name and hire date of every employee who was hired in 1994. (hints: like)

Select last-name, hire-date from employees  
where hire-date like '1994%';

8. Display the last name and job title of all employees who do not have a manager. (hints: is null)

Select last-name, job-id from employees  
where manager-id is NULL;

9. Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions. (hints: is not null, order by)

Select last-name, salary, commission-pct  
from employees  
where commission-pct is not null  
Order By salary Desc, commission-pct Desc;

10. Display the last name of all employees where the third letter of the name is a. (hints: like)

Select last-name from employees where last-name  
like '\_\_\_a%';

11. Display the last name of all employees who have an a and an e in their last name. (hints: like)

Select last-name from employees  
where last-name like '%a%' and last-name '%e%';

12. Display the last name and job and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to 2500, 3500 or 7000. (hints: in, not in)

Select last-name, job-id, salary from employees  
where job-id in ('SALES REPRESENTATIVE', 'STOCK CLERK')  
and salary NOT IN (2500, 3500, 7000);

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	