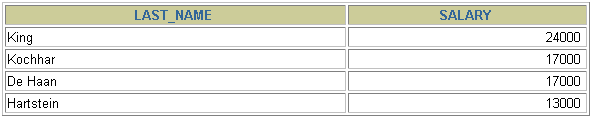
**Lab Practice 2 – Database Systems**

**Roll No: 2k20/ITE/73 Name: Mubashir Ali**

**Practice Question 1**

Create a query to display the last name and salary of employees earning more than 12,000.

**See output below**



Answer:

SELECT last\_name, salary

FROM employees

WHERE salary > 12000;

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**Practice Question 2**

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

**See output below**



**Answer:**

**SELECT last\_name, department\_id**

**FROM employees**

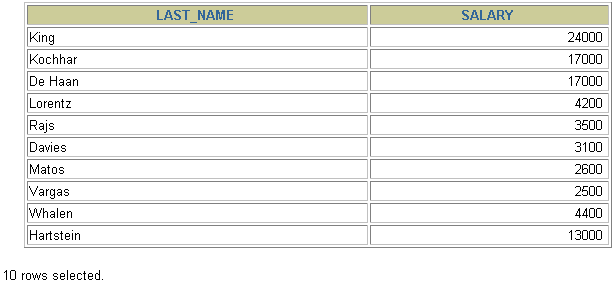
**WHERE employee\_id = 176;**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 3**

Display the last name and salary for all employees whose salary is not in the range of 5,000 and 12,000.

**See output below**



**Answer:**

**SELECT last\_name, salary**

**FROM employees**

**WHERE salary NOT BETWEEN 5000 AND 12000;**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 4**

Display the employee last name, job ID, and start date of employees hired between 02-2-2002, and 02-02-2005.

**See output below**



Answer:

SELECT last\_name, job\_id, hire\_date

FROM employees

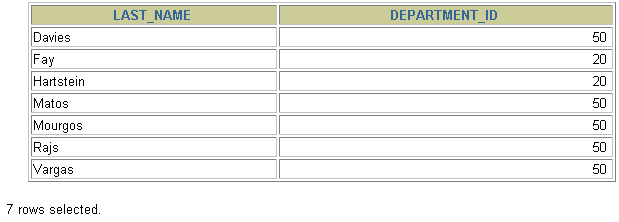
WHERE hire\_date BETWEEN '02-02-2002' AND '02-02-2005';

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 5**

Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by name.

**See output below**



Answer:

SELECT last\_name,department\_id

FROM employees

WHERE department\_id IN (20, 50)

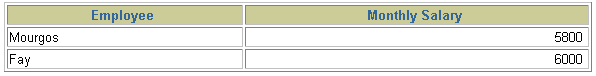
Order by last\_name;

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 6**

List the last name and salary of employees who earn between 5,000 and 12,000, and are in department 20 or 50.

**See output below**



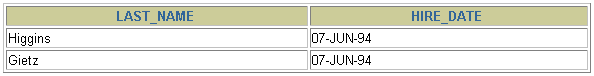
Answer:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 7**

Display the last name and hire date of every employee who was hired in 2002.

**See output below**



Answer:

SELECT last\_name, hire\_date

FROM employees

WHERE hire\_date LIKE '%94';

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 8**

Display the last name and job title of all employees who do not have a manager.

**See output below**



Answer:

SELECT last\_name, job\_id

FROM employees

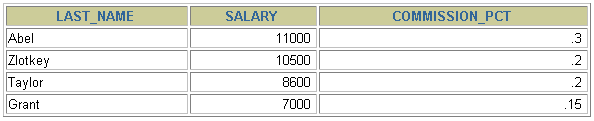
WHERE manager\_id IS NULL;

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 9**

Display the last name, salary and commission of all employees who are earning commission

**See output below**



Answer:

SELECT last\_name, salary, commission\_pct

FROM employees

WHERE commission\_pct IS NOT NULL

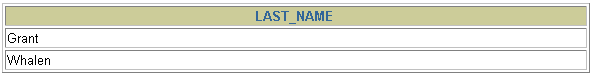
ORDER BY salary DESC, commission\_pct DESC;

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 10**

Display the last names of all employees where the third letter of the name is “*a”.*

**See output below**



Answer:

SELECT last\_name

FROM employees

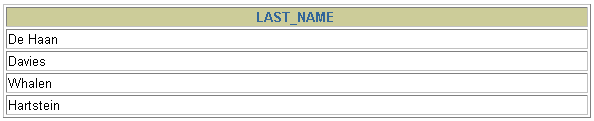
WHERE last\_name LIKE '\_\_a%';

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 11**

Display the last name of all employees who have letter “*a”* and “*e”* in their last name.

**See output below**



Answer:

SELECT last\_name

FROM employees

WHERE last\_name LIKE '%a%'

AND last\_name LIKE '%e%';

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_