

Lab No. 3

Restricting and Sorting Data

Q1

Create a query to display the name and salary of employees earning more than \$4000.

Answer.

```
SQL> SELECT Fname,'$'||salary AS salary FROM employee WHERE salary>4000;
```

FNAME	SALARY
Saira	\$10000
Saham	\$13000
Abdullah	\$11000
Hasnain	\$11000
Ammad	\$9000

Q2

Create a query to display the employee name and department number for employee number 7839.

Answer.

```
SQL> SELECT Fname AS Ename,deptNo FROM employee where eNum=7839;
```

ENAME	DEPTNO
Saira	20
Saham	30

Q3

Modify lab to display the name and salary for all employees whose salary is not in the range of \$5,000 and \$12,000.

Answer.

```
SQL> get lab2_1.sql;
1* SELECT Fname AS Ename,'$'||salary AS salary FROM employee where salary NOT BETWEEN 5000 AND 12000;
SQL> @lab2_1.sql;
```

ENAME	SALARY
Saham	\$13000
Sam	\$2000
Anie	\$3500

Q4

Display the employee name, job , and hiredate of employees hired between February 20, 1998, and May 1, 1998. Order the query in ascending order by start date.

Answer.

```
SQL> SELECT Fname AS Ename,job,hiredate FROM employee WHERE hiredate BETWEEN '20-Feb-1998' AND '1-May-1998' ORDER BY hiredate;
```

ENAME	JOB	HIREDATE
Saira	Software Developer	22-FEB-98
Saham	Software Developer	22-MAR-98

Q5

Display the name and department number of all employees in departments 20 and 30 in alphabetical order by name.

Answer.

```
SQL> SELECT Fname AS Ename,deptNo FROM employee where deptNo IN(20,30) ORDER BY Fname;
```

ENAME	DEPTNO
Ammad	20
Saham	30
Saira	20
Sam	30

Q6

Modify lab to list the name and salary of employees who earn between \$5,000 and \$12,000, and are in department 20 or 50. Label the columns Employee and Monthly Salary , respectively.

Answer.

```
SQL> edit lab2_1.sql
SQL> get lab2_1.sql;
1* SELECT Fname AS Employee,'$'||salary AS Monthly_Salary FROM employee where (salary BETWEEN 5000 AND 12000) AND (deptNo IN(20,50));
SQL> @lab2_1.sql;
```

EMPLOYEE	MONTHLY_SALARY
Saira	\$10000
Abdullah	\$11000
Hasnain	\$11000
Ammad	\$9000

Q7

Display the last name and hire date of every employee who was hired in 1994.

Answer.

```
SQL> SELECT Lname,hiredate FROM employee where hiredate like '%94';
```

LNAME	HIREDATE
allen	22-MAR-94
Musharaf	22-MAR-94
James	22-MAR-94
Mubarak	22-MAR-94
khan	22-MAR-94

Q8

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

Answer.

```
SQL> SELECT Fname,job FROM employee where job<>'manager';
```

FNAME	JOB
Saira	Software Developer
Saham	Software Developer
Sam	clerk
Anie	salesman
Ammad	Developer

Q9

Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.

Answer.

```
SQL> SELECT Lname,'$'||salary AS salary, commission FROM employee where commission IS NOT NULL ORDER BY salary DESC,commission DESC;
```

LNAME	SALARY	COMMISSION
khan	\$9000	3000
Ahmed	\$13000	3000
Mubarak	\$11000	2000
Shaikh	\$10000	3000

Q10

Display the last names of all employees where the third letter of the name is an a.

Answer.

```
SQL> SELECT Lname FROM employee WHERE Lname like '__a%';
```

LNAME
Shaikh
khan

Q11

Display the last name of all employees who have an a and an e in their name.

Answer.

```
SQL> SELECT Lname FROM employee WHERE Lname like '%a%' AND Lname like '%e%';

LNAME
-----
allen
James
```

Q12

Display the last name, job, and salary for all employees whose job is salesman or clerk and whose salary is not equal to \$2,500, \$3,500, or \$800.

Answer.

```
SQL> SELECT Lname,job,'$'||salary AS salary FROM employee WHERE (job IN('salesman','clerk')) AND salary NOT IN (2500,3500,800);

LNAME      JOB
-----
SALARY
-----
allen      clerk
$2000
```