

## Exercise 4 – Retrieving Data Using the SQL SELECT Statement

**\*Run script HR.sql before the exercise.**

1. There are four coding errors in the following statement. Can you identify them?

```
SELECT employee_id, last_name salx12 ANNUAL SALARY
FROM employees;
```

2. The HR department wants a query to display the last name, job id, hire date, and employee id for each employee, with the employee id appearing first. Provide an alias STARTDATE for the HIRE\_DATE column.

```
EMPLOYEE_ID LAST_NAME                JOB_ID    STARTDATE
-----
      100 King                AD_PRES    17-JUN-87
      101 Kochhar             AD_UP      21-SEP-89
...
      204 Baer                PR_REP     07-JUN-94
      205 Higgins             AC_MGR     07-JUN-94

22 rows selected.
```

3. The HR department wants a query to display all unique job ids from the EMPLOYEES table.

```
JOB_ID
-----
IT_PROG
AC_MGR
...
ST_CLERK
HR_REP

15 rows selected.
```

4. The HR department wants more descriptive column headings for its report on employees. Name the column headings Emp#, Last Name, Job and Hire Date, respectively.

```
Emp # Employee                Job      Hire Date
-----
      100 King                AD_PRES    17-JUN-87
      101 Kochhar             AD_UP      21-SEP-89
...
      204 Baer                PR_REP     07-JUN-94
      205 Higgins             AC_MGR     07-JUN-94

22 rows selected.
```

5. Because of budget issues, the HR department needs a report that displays the last name and salary of employees who earn more than \$12,000.

```
LAST_NAME                SALARY
-----
King                    24000
Kochhar                 17000
De Haan                 17000
Russell                 14000
Hartstein               13000
```

6. The HR department needs to know the last name and salary for any employee whose salary is not in the range of \$5,000 to \$12,000.

LAST_NAME	SALARY
Matos	2600
Lorentz	4200
...	
Kochhar	17000
King	24000

8 rows selected.

7. Create a report to display the last name, job id and hire date for employees with last name of Matos or Taylor. Order the query in ascending order by the hire date.

LAST_NAME	JOB_ID	HIRE_DATE
Matos	ST_CLERK	15-MAR-98
Taylor	SA_REP	24-MAR-98

8. Display the last name and salary of employees who earn between \$5,000 and \$12,000, and also working in department 20 or 50. Label the columns as Employee and Monthly Salary, respectively.

Employee	Monthly Salary
Fripp	8200
Kaufling	7900
Mourgos	5800
Fay	6000

9. Create a report to display the last name, salary and commission of all employees who earn commissions. Sort the data in descending order of salary and commissions.

LAST_NAME	SALARY	COMMISSION_PCT
Russell	14000	.4
Zlotkey	10500	.2
Taylor	8600	.2
Grant	7000	.15

10. Display the last name of all employees in which third letter of the name is "a" or "e".

LAST_NAME
Greenberg
Grant
Whalen
Baer