

## EX 3: Writing Basic SQL Select Statement

```
Run SQL Command Line
SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL>
SQL> SELECT employee_id, last_name sal*12 ANNUAL SALARY FROM employees;
SELECT employee_id, last_name sal*12 ANNUAL SALARY FROM employees
*
ERROR at line 1:
ORA-00923: FROM keyword not found where expected

SQL> SELECT employee_id, last_name, salary*12 AS ANNUAL_SALARY FROM employees;

EMPLOYEE_ID LAST_NAME          ANNUAL_SALARY
-----
101 Smith              720000
102 Doe                 540000
103 Johnson             624000
104 Brown               360000

SQL> DESC departments;
Name                               Null?    Type
-----
DEPT_ID                           NOT NULL NUMBER(6)
DEPT_NAME                         NOT NULL VARCHAR2(20)
MANAGER_ID                       NUMBER(6)
LOCATION_ID                        NUMBER(4)

SQL> SELECT * FROM departments;

no rows selected

SQL> SELECT employee_id, last_name, job_id, hire_date FROM employees;

EMPLOYEE_ID LAST_NAME          JOB_ID          HIRE_DATE
-----
101 Smith              IT_PROG         15-JAN-20
102 Doe                 HR-PRG          18-FEB-19
103 Johnson             IT_PROG         20-MAR-21
104 Brown               AD-ASST         22-APR-18

SQL>
```

```
Run SQL Command Line
EMPLOYEE_ID LAST_NAME          JOB_ID          HIRE_DATE
-----
101 Smith              IT_PROG         15-JAN-20
102 Doe                 HR-PRG          18-FEB-19
103 Johnson             IT_PROG         20-MAR-21
104 Brown               AD-ASST         22-APR-18

SQL> SELECT hire_date AS STARTDATE FROM employees;

STARTDATE
-----
15-JAN-20
18-FEB-19
20-MAR-21
22-APR-18

SQL> SELECT DISTINCT job_id FROM employees;

JOB_ID
-----
IT_PROG
AD-ASST
HR-PRG

SQL> SELECT last_name || ', ' || job_id AS "EMPLOYEE AND TITLE" FROM employees;

EMPLOYEE AND TITLE
-----
Smith, IT_PROG
Doe, HR-PRG
Johnson, IT_PROG
Brown, AD-ASST

SQL> SELECT employee_id || ', ' || first_name || ', ' || last_name || ', ' || email || ', ' || phone_number || ', ' || hire_date || ', ' || job_id || ', ' || salary ||
', ' || commission_pct || ', ' || manager_id || ', ' || department_id AS "THE OUTPUT" FROM employees;
SELECT employee_id || ', ' || first_name || ', ' || last_name || ', ' || email || ', ' || phone_number || ', ' || hire_date || ', ' || job_id || ', ' || salary || ', '
|| commission_pct || ', ' || manager_id || ', ' || department_id AS "THE OUTPUT" FROM employees
*
ERROR at line 1:
ORA-00904: "COMMISSION_PCT": invalid identifier

SQL>
```

```
Run SQL Command Line
AD-ASST
HR-PRG

SQL> SELECT last_name || ', ' || job_id AS "EMPLOYEE AND TITLE" FROM employees;

EMPLOYEE AND TITLE
-----
Smith, IT_PROG
Doe, HR-PRG
Johnson, IT_PROG
Brown, AD-ASST

SQL> SELECT employee_id || ', ' || first_name || ', ' || last_name || ', ' || email || ', ' || phone_number || ', ' || hire_date || ', ' || job_id || ', ' || salary ||
', ' || commission_pct || ', ' || manager_id || ', ' || department_id AS "THE_OUTPUT" FROM employees;
SELECT employee_id || ', ' || first_name || ', ' || last_name || ', ' || email || ', ' || phone_number || ', ' || hire_date || ', ' || job_id || ', ' || salary || ',
' || commission_pct || ', ' || manager_id || ', ' || department_id AS "THE_OUTPUT" FROM employees
*
ERROR at line 1:
ORA-00904: "COMMISSION_PCT": invalid identifier

SQL> SELECT employee_id || ', ' || first_name || ', ' || last_name || ', ' || email || ', ' || phone_number || ', ' || hire_date || ', ' || job_id || ', ' || salary ||
', ' || commission_pct || ', ' || manager_id || ', ' || department_id AS "THE_OUTPUT" FROM employees;

THE_OUTPUT
-----
101, John, Smith, jsmith@xyz.com, 123-456-7890, 15-JAN-20, IT_PROG, 60000, .1, 1
00, 60

102, Jane, Doe, jdoe@xyz.com, 453-456-7890, 18-FEB-19, HR-PRG, 45000, .15, 101,
40

103, Emily, Johnson, ejohnson@xyz.com, 987-456-7890, 20-MAR-21, IT_PROG, 52000,
.1, 100, 60

104, Micheal, Brown, mbrown@xyz.com, 111-226-7890, 22-APR-18, AD-ASST, 30000, .0
5, 102, 10

THE_OUTPUT
-----

SQL>
```

Activate Windows  
Go to Settings to activate Windows.