

## Practice 7

1. Create and invoke the GET\_JOB function to return a job title.
  - a. Create and compile a function called GET\_JOB to return a job title.
  - b. Call the created function from an anonymous block for the SA\_REP job ID and print the result.
2. Create a function called GET\_ANNUAL\_COMP to return the annual salary computed from an employee's monthly salary and commission passed as parameters.
  - a. Create the function, which accepts parameter values for the monthly salary and commission. Either or both values passed can be NULL, but the function should still return a non-NULL annual salary. Use the following basic formula to calculate the annual salary:
$$(\text{salary} * 12) + (\text{commission\_pct} * \text{salary} * 12)$$
  - b. Use the function in a SELECT statement against the EMPLOYEES table for employees in department 30.
3. Create a procedure, ADD\_EMPLOYEE, to insert a new employee into the EMPLOYEES table. The procedure should call a VALID\_DEPTID function to check whether the department ID specified for the new employee exists in the DEPARTMENTS table.
  - a. Create a function called VALID\_DEPTID to validate a specified department ID and return a BOOLEAN value of TRUE if the department exists.
  - b. Create the ADD\_EMPLOYEE procedure to add an employee to the EMPLOYEES table. The row should be added to the EMPLOYEES table if the VALID\_DEPTID function returns TRUE; otherwise, alert the user with an appropriate message. Provide the following parameters:
    - first\_name
    - last\_name
    - email
    - job: Use 'SA\_REP' as the default
    - mgr: Use 145 as the default
    - sal: Use 1000 as the default
    - comm: Use 0 as the default
    - deptid: Use 30 as the default

- Use the EMPLOYEES\_SEQ sequence to set the employee\_id column
  - Set the hire\_date column to TRUNC(SYSDATE)
- c. Call ADD\_EMPLOYEE for the name Jane Harris in department 15, leaving other parameters with their default values. What is the result?
- d. Add another employee named Joe Harris in department 80, leaving remaining parameters with their default values. What is the result?