CHAPTER 2
Data Manipulation - Retrieve, Restrict and Sort
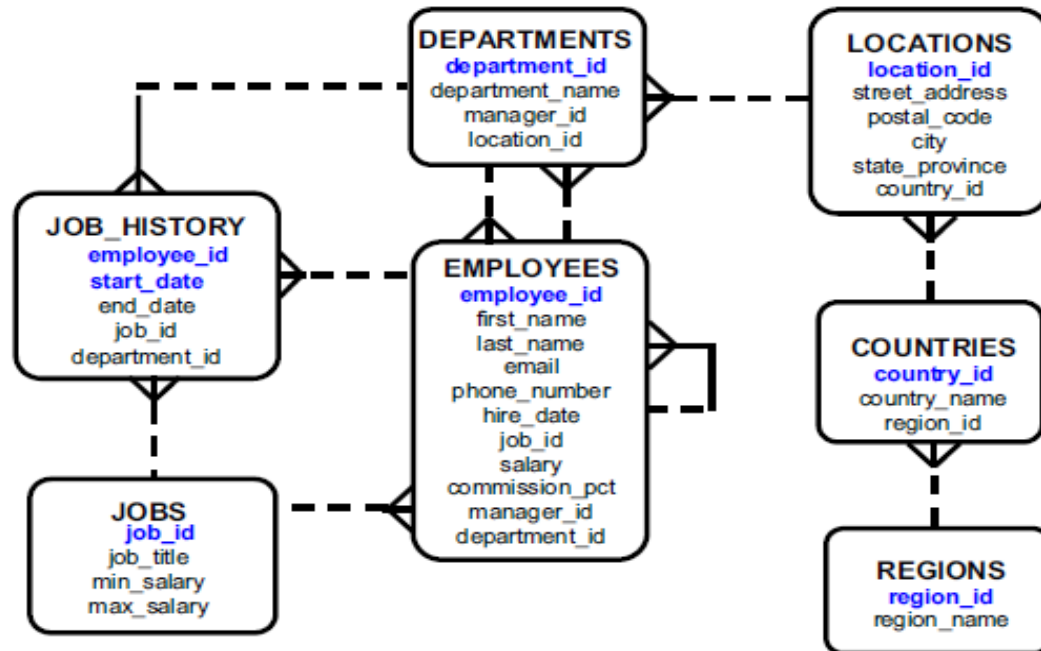
EXERCISES

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The HR Schema (sample Database from Oracle)

Exercise questions are based on HR database schema available in Oracle.

HR Schema

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Lab Exercises 2.1
Write SQL statements to display report as instructed by the followings:

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

2. Display the last name, job_id, hire_date, and employee_ID; with the employee_ID appearing first. Provide an alias for 'STARTDATE' for the HIRE_DATE column.

3. Display all the Department data from Department table. Separate each column output by a comma. Name the column title 'THE_OUTPUT'.

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1. Display the last name and salary of employees who earn more than $10,000.

2. Create a report that displays the last name and department number for Employee_ID = 150

3. Display the last name and salary for employee whose salary is between $7,000 and $10,000.

4. Display the start date, last name and job ID for the employees with the last names of 'Taylor' or 'Grant'. The display should be in ascending order by the start date.

5. Display the First_Name, Last_Name and Department_ID of employees that works in Department_ID 20 or 50; and display it in ascending order by Last_name.

6. Display the last name and salary of employees whose salary not in the range of $5,000 to $10,000, work in department 20 or 50. The columns should named 'Employee Names' and 'Monthly Salary', respectively.

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Lab Exercises 2.3
Write SQL statements to display report as instructed by the followings:

7. Display the last name and hire date of employees who were hired in 2004.

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

9. Display the salary, commission and last name of employees who have commissions. The list should be in descending order by salary and commissions.

10. Display the salary and last name of employees whose salary are higher than last name from a prompt box.

11. Write an SQL statement that produce manager_ID's prompt box, then display employee ID, last name, salary, and department_ID for that manager's subordinate. The displayed report are sorted according to a selected column in the prompt box.

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12. Display all First_name that the third letter of the name is "c."

13. Display the First_name and Last_Name of employees who have both an "a" and an "c" in their Last Name.

14. Display the job_ID, salary and last name of employees whose job_ID is SALES_REP or SALES_CLERK, and salaries are not equal to $2,500, $3,500, or $7,000.

15. Display the the First_name and Last_Name, salary, and commission for all employees whose commission is 20%.

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References

Oracle Database 11g: SQL Fundamentals I, Oracle University at:
http://education.oracle.com

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