Lab SQL

Subquery – Correlated subquery

EMP

Column name	Data type	Description
EMPNO	Number	Employee number, Primary Key
ENAME	Varchar	Employee name
JOB	Char	Designation
MGR	Number	Manager's Emp. number
HIREDATE	Date	Date of joining
SAL	Number	Basic Salary
COMM	Number	Commission
DEPTNO	Number	Department Number, Foreign Key

DEPT

Column name	Data type	Description
DEPTNO	Number	Department number, Primary Key
DNAME	Varchar	Department name
LOC	Varchar	Location of department

Data for EMP

7369	Smith	Clerk	7902	17/12/80	800		20
7499	Allen	Salesman	7698	20/2/81	1600	300	30
7521	Ward	Salesman	7698	22/2/81	1250	500	30
7566	Jones	Manager	7839	2/4/81	2975		20
7654	Martin	Salesman	7698	28/9/81	1250	1400	30
7698	Blake	Manager	7839	1/5/81	2850		30
7782	Clark	Manager	7839	9/6/81	2450		10
7788	Scott	Analyst	7566	9/12/82	3000		20
7839	King	President		17/11/81	5000		10
7844	Turner	Salesman	7698	8/9/81	1500	0	30
7876	Adams	Clerk	7788	12/1/83	1100		20
7900	James	Clerk	7698	3/12/81	950		30

7902	Ford	Analyst	7566	4/12/81	3000		20
7934	Miller	Clerk	7782	23/1/82	1300		10

Data for DEPT table

10	Accounting	New York
20	Research	Dallas
30	Sales	Chicago
40	Operations	Boston

Queries

1- Add a column called city to employees table
2- Add values in the city column for each employee using the city column in dept table (Randomly and using update statement)

3-   List employees who work in the same department as" Jones"

4-   List employees who work the same job as "James"

5-   List employees who have salary greater than average salary of department "Accounting"

6-   List departments who has number of employees more than department "Operations"

7-   List employees who have the same manager as "Allen"

8-   List employees who get salary less than the average salary of their department

9-   List employees who get salary greater than the average salary of their department

10-   List employees who lives in the same city as their departments

11-   List employees who lives in the same city as their manager