Java 8 Functionality

Assignment 2

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Q1. **Table : emp, dept , system login**

```
SQL*Plus: Release 21.0.0.0.0 - Production on Wed Feb 1 10:45:49 2023
Version 21.3.0.0.0

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Enter user-name: SYSTEM
Enter password:
Last Successful login time: Wed Feb 01 2023 10:33:26 +05:30

Connected to:
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> desc emp;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 EMPNO                                     NOT NULL NUMBER(4)
 FIRSTNAME                                          VARCHAR2(10)
 JOB                                                VARCHAR2(9)
 MGR                                                NUMBER(4)
 HIREDATE                                           DATE
 SAL                                                NUMBER(7,2)
 COMM                                               NUMBER(7,2)
 DEPTNO                                             NUMBER(2)
 LID                                                NUMBER(38)

SQL> desc dept;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 DEPTNO                                     NOT NULL NUMBER(2)
 DNAME                                              VARCHAR2(14)
 LOC                                                VARCHAR2(13)
 LID                                                NUMBER(38)
```

**location -> lid -> pk, city, gen values using sequence, insert
data**

```
SQL> desc location;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LID                                        NOT NULL NUMBER(38)
 CITY                                               VARCHAR2(20)
```

alter dept-> lid -> relate dept location, add corresponding entries

```
SQL> select * from dept;

    DEPTNO DNAME           LOC               LID
    ------ --------------- ---------------   -----------
        10 ACCOUNTING      NEW YORK            1
        20 RESEARCH        DALLAS              3
        30 SALES           CHICAGO             5
        40 OPERATIONS      BOSTON              2
```

join-> 3 table
firstname from employee which dept-> deptname, city of employee

```
SQL> select emp.firstname,dept.dname,location.city from emp join dept on emp.deptno=dept.deptno join location on dept.lid=location.lid;

FIRSTNAME  DNAME        CITY
---------- ------------ -------------------
KING       ACCOUNTING   kolkata
BLAKE      SALES        chennai
CLARK      ACCOUNTING   kolkata
JONES      RESEARCH     delhi
SCOTT      RESEARCH     delhi
FORD       RESEARCH     delhi
SMITH      RESEARCH     delhi
ALLEN      SALES        chennai
TURNER     SALES        chennai

9 rows selected.
```

print empl-> id firstname, having highest salary
having second highest salary

```
SQL> select empno,firstname from emp where sal= (select min(sal) from (select distinct sal from emp order by sal desc) where rownum <3);

    EMPNO FIRSTNAME
---------- ----------
     7788 SCOTT
     7902 FORD

SQL> select empno,firstname,sal from emp where sal= (select min(sal) from (select distinct sal from emp order by sal desc) where rownum <3);

    EMPNO FIRSTNAME       SAL
---------- ---------- ----------
     7788 SCOTT          3000
     7902 FORD           3000
```