

NO SQL LAB – 3

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CREATION OF COLLECTION -

```
script.js 3yauknzer NEW
1 use employee
2 db.createCollection("employee_details")
3 db.employee_details.insert({empno:7369,ename:"Smith",job:"Clerk",hiredate:"17-Dec-80",mgr:7902,sal:800,comm:
4 db.employee_details.insert({empno:7499,ename:"Allen",job:"Salesman",hiredate:"20-Feb-81",mgr:7698,sal:800,co
5 db.employee_details.insert({empno:7521,ename:"Ward",job:"Salesman",hiredate:"22-Feb-81",mgr:7698,sal:1250,co
6 db.employee_details.insert({empno:7566,ename:"Jones",job:"Manager",hiredate:"02-Apr-81",mgr:7839,sal:2975,co
7 db.employee_details.insert({empno:7654,ename:"Martin",job:"Salesman",hiredate:"28-Sep-81",mgr:7968,sal:1250,co
8 db.employee_details.insert({empno:7698,ename:"Blake",job:"Manager",hiredate:"01-May-81",mgr:7839,sal:2450,co
9 db.employee_details.insert({empno:7782,ename:"Clark",job:"Manager",hiredate:"09-Jun-81",mgr:7839,sal:2850,co
10 db.employee_details.insert({empno:7788,ename:"Scott",job:"Analyst",hiredate:"19-Apr-87",mgr:7566,sal:3000,co
11 db.employee_details.insert({empno:7839,ename:"King",job:"President",hiredate:"17-Nov-81",mgr:null,sal:5000,co
12 db.employee_details.insert({empno:7844,ename:"Turner",job:"Salesman",hiredate:"08-Sep-81",mgr:7698,sal:1500,co
13 db.employee_details.insert({empno:7876,ename:"Adam",job:"Clerk",hiredate:"23-May-87",mgr:7788,sal:1100,comm:
14 db.employee_details.insert({empno:7900,ename:"James",job:"Clerk",hiredate:"03-Dec-81",mgr:7698,sal:950,comm:
15 db.employee_details.insert({empno:7902,ename:"Ford",job:"Analyst",hiredate:"03-Dec-81",mgr:7566,sal:3000,comm:
16 db.employee_details.insert({empno:7934,ename:"Miller",job:"Clerk",hiredate:"23-Jan-82",mgr:7782,sal:1300,comm:
17
18
```

STDIN
Input for the program (Optional)

Output:
switched to db employee
{
 "ok" : 0,
 "errmsg" : "Collection already exists",
 "code" : 48,
 "codeName" : "NamespaceExists"
}
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })
WriteResult({ "nInserted" : 1 })

QUESTIONS –

1. Display all the employee details

```
17
18 db.employee_details.find().pretty()
19
```

Output:

switched to db employee

```
{
  "_id" : ObjectId("62dc0f0241e17770cd8d9898"),
  "empno" : 7369,
  "ename" : "Smith",
  "job" : "Clerk",
  "hiredate" : "17-Dec-80",
  "mgr" : 7902,
  "sal" : 800,
  "comm" : null,
  "deptno" : 20
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d9899"),
  "empno" : 7499,
  "ename" : "Allen",
  "job" : "Salesman",
  "hiredate" : "20-Feb-81",
  "mgr" : 7698,
  "sal" : 800,
  "comm" : 1600,
  "deptno" : 30
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d989a"),
  "empno" : 7521,
  "ename" : "Ward",
  "job" : "Salesman",
  "hiredate" : "22-Feb-81",
  "mgr" : 7698,
  "sal" : 1250,
  "comm" : 500,
  "deptno" : 30
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d989b"),
  "empno" : 7566,
  "ename" : "Jones",
  "job" : "Manager",
  "hiredate" : "02-Apr-81",
  "mgr" : 7839,
  "sal" : 2975,
  "comm" : null,
  "deptno" : 20
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d989c"),
```

```
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d989d"),
  "empno" : 7698,
  "ename" : "Blake",
  "job" : "Manager",
  "hiredate" : "01-May-81",
  "mgr" : 7839,
  "sal" : 2450,
  "comm" : null,
  "deptno" : 10
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d989e"),
  "empno" : 7782,
  "ename" : "Clark",
  "job" : "Manager",
  "hiredate" : "09-Jun-81",
  "mgr" : 7839,
  "sal" : 2850,
  "comm" : null,
  "deptno" : 30
}
{
```

```

{
  "_id" : ObjectId("62dc0f0241e17770cd8d98a0"),
  "empno" : 7839,
  "ename" : "King",
  "job" : "President",
  "hiredate" : "17-Nov-81",
  "mgr" : null,
  "sal" : 5000,
  "comm" : null,
  "deptno" : 10
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d98a1"),
  "empno" : 7844,
  "ename" : "Turner",
  "job" : "Salesman",
  "hiredate" : "08-Sep-81",
  "mgr" : 7698,
  "sal" : 1500,
  "comm" : 0,
  "deptno" : 30
}
{
  "_id" : ObjectId("62dc0f0241e17770cd8d98a2"),

```

2. Display the ENAME of all the employees (Hint: use find() method)

```

4 db.employee_details.find({}, {_id:0,empno:0,job:0,hiredate:0,mgr:0,sal:0 ,comm:0,deptno:

```

```

{ "ename" : "Smith" }
{ "ename" : "Allen" }
{ "ename" : "Ward" }
{ "ename" : "Jones" }
{ "ename" : "Martin" }
{ "ename" : "Blake" }
{ "ename" : "Clark" }
{ "ename" : "Scott" }
{ "ename" : "King" }
{ "ename" : "Turner" }
{ "ename" : "Adam" }

```

3. Display the ENAME, JOB of all the employees(Hint: use find() method)

```
19 db.employee_details.find({}, {_id:0, empno:0, hiredate:0, mgr:0, sal:0, comm:0, deptno:0})
```

```
{ "ename" : "Smith", "job" : "Clerk" }
{ "ename" : "Allen", "job" : "Salesman" }
{ "ename" : "Ward", "job" : "Salesman" }
{ "ename" : "Jones", "job" : "Manager" }
{ "ename" : "Martin", "job" : "Salesman" }
{ "ename" : "Blake", "job" : "Manager" }
{ "ename" : "Clark", "job" : "Manager" }
{ "ename" : "Scott", "job" : "Analyst" }
{ "ename" : "King", "job" : "President" }
{ "ename" : "Turner", "job" : "Salesman" }
{ "ename" : "Adam", "job" : "Clerk" }
{ "ename" : "James", "job" : "Clerk" }
```

Activate Windows

4. Display EMPNO, ENAME, JOB, HIREDATE of all the employees (Hint:use find() method)

```
db.employee_details.find({}, {_id:0, mgr:0, sal:0, comm:0, deptno:0})
```

```
{ "empno" : 7369, "ename" : "Smith", "job" : "Clerk", "hiredate" :
{ "empno" : 7499, "ename" : "Allen", "job" : "Salesman", "hiredate
{ "empno" : 7521, "ename" : "Ward", "job" : "Salesman", "hiredate"
{ "empno" : 7566, "ename" : "Jones", "job" : "Manager", "hiredate"
{ "empno" : 7654, "ename" : "Martin", "job" : "Salesman", "hiredat
{ "empno" : 7698, "ename" : "Blake", "job" : "Manager", "hiredate"
{ "empno" : 7782, "ename" : "Clark", "job" : "Manager", "hiredate"
{ "empno" : 7788, "ename" : "Scott", "job" : "Analyst", "hiredate"
{ "empno" : 7839, "ename" : "King", "job" : "President", "hiredate
{ "empno" : 7844, "ename" : "Turner", "job" : "Salesman", "hiredat
{ "empno" : 7876, "ename" : "Adam", "job" : "Clerk", "hiredate" :
{ "empno" : 7900, "ename" : "James", "job" : "Clerk", "hiredate" :
```


5. Display the details of all the employees in the ascending order of EMPNO (Hint: use sort() method)

```
19 db.employee_details.find().sort({"empno":1})
```

```
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d0"), "empno" : 7369,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d1"), "empno" : 7499,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d2"), "empno" : 7521,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d3"), "empno" : 7566,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d4"), "empno" : 7654,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d5"), "empno" : 7698,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d6"), "empno" : 7782,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d7"), "empno" : 7788,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d8"), "empno" : 7839,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0d9"), "empno" : 7844,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0da"), "empno" : 7876,
{ "_id" : ObjectId("62dc19930fd43d9a7c6ed0db"), "empno" : 7900,
```

6. Display the details of all the employees in the ascending order of SAL (Hint: use sort() method)

```
19 db.employee_details.find().sort({"sal":1})
```

```
date" : "17-Dec-80", "mgr" : 7902, "sal" : 800, "comm" : null, "dept
hiredate" : "20-Feb-81", "mgr" : 7698, "sal" : 800, "comm" : 1600, "c
date" : "17-Dec-80", "mgr" : 7902, "sal" : 800, "comm" : null, "dept
hiredate" : "20-Feb-81", "mgr" : 7698, "sal" : 800, "comm" : 1600, "c
date" : "03-Dec-81", "mgr" : 7698, "sal" : 950, "comm" : null, "dept
date" : "03-Dec-81", "mgr" : 7698, "sal" : 950, "comm" : null, "dept
ate" : "23-May-87", "mgr" : 7788, "sal" : 1100, "comm" : null, "dept
ate" : "23-May-87", "mgr" : 7788, "sal" : 1100, "comm" : null, "dept
redate" : "22-Feb-81", "mgr" : 7698, "sal" : 1250, "comm" : 500, "de
hiredate" : "28-Sep-81", "mgr" : 7968, "sal" : 1250, "comm" : 1400,
redate" : "22-Feb-81", "mgr" : 7698, "sal" : 1250, "comm" : 500, "de
hiredate" : "28-Sep-81", "mgr" : 7968, "sal" : 1250, "comm" : 1400,
edate" : "23-Jan-82", "mgr" : 7782, "sal" : 1300, "comm" : null, "de
edate" : "23-Jan-82", "mgr" : 7782, "sal" : 1300, "comm" : null, "de
hiredate" : "08-Sep-81", "mgr" : 7698, "sal" : 1500, "comm" : 0, "de
hiredate" : "08-Sep-81", "mgr" : 7698, "sal" : 1500, "comm" : 0, "de
redate" : "01-May-81", "mgr" : 7839, "sal" : 2450, "comm" : null, "c
redate" : "01-May-81", "mgr" : 7839, "sal" : 2450, "comm" : null, "c
```

7. Display the details of all the employees in the ascending order of ENAME (Hint: use sort() method)

```
19 db.employee_details.find().sort({"ename":1})
```

```
ObjectId("62dc1bff86d5c7dfbaff2a81"), "empno" : 7876, "ename" : "Ad
ObjectId("62dc1bff86d5c7dfbaff2a78"), "empno" : 7499, "ename" : "Al
ObjectId("62dc1bff86d5c7dfbaff2a7c"), "empno" : 7698, "ename" : "Bl
ObjectId("62dc1bff86d5c7dfbaff2a7d"), "empno" : 7782, "ename" : "Cl
ObjectId("62dc1bff86d5c7dfbaff2a83"), "empno" : 7902, "ename" : "Fo
ObjectId("62dc1bff86d5c7dfbaff2a82"), "empno" : 7900, "ename" : "Ja
ObjectId("62dc1bff86d5c7dfbaff2a7a"), "empno" : 7566, "ename" : "Jo
ObjectId("62dc1bff86d5c7dfbaff2a7f"), "empno" : 7839, "ename" : "Ki
ObjectId("62dc1bff86d5c7dfbaff2a7b"), "empno" : 7654, "ename" : "Ma
ObjectId("62dc1bff86d5c7dfbaff2a84"), "empno" : 7934, "ename" : "Mi
ObjectId("62dc1bff86d5c7dfbaff2a7e"), "empno" : 7788, "ename" : "Sc
ObjectId("62dc1bff86d5c7dfbaff2a77"), "empno" : 7369, "ename" : "Sir
ObjectId("62dc1bff86d5c7dfbaff2a80"), "empno" : 7844, "ename" : "Ti
```

8. Display the details of all the employees in the descending order of JOB (Hint: use sort() method)

```
20 db.employee_details.find().sort({"job":-1})
```

```
9, "ename" : "Allen", "job" : "Salesma
1, "ename" : "Ward", "job" : "Salesma
4, "ename" : "Martin", "job" : "Sales
4, "ename" : "Turner", "job" : "Sales
9, "ename" : "King", "job" : "Preside
6, "ename" : "Jones", "job" : "Manag
8, "ename" : "Blake", "job" : "Manag
2, "ename" : "Clark", "job" : "Manag
9, "ename" : "Smith", "job" : "Clerk"
6, "ename" : "Adam", "job" : "Clerk",
0, "ename" : "James", "job" : "Clerk"
4, "ename" : "Miller", "job" : "Clerk"
```

9. Display the details of all the employees in the descending order of DEPTNO (Hint: use sort() method)

```
20 db.employee_details.find().sort({"deptno":-1})
```

```

mgr" : 7698, "sal" : 800, "comm" : 1600, "deptn
gr" : 7698, "sal" : 1250, "comm" : 500, "deptn
'mgr" : 7968, "sal" : 1250, "comm" : 1400, "dep
gr" : 7839, "sal" : 2850, "comm" : null, "deptn
'mgr" : 7698, "sal" : 1500, "comm" : 0, "deptnc
' : 7698, "sal" : 950, "comm" : null, "deptno"
' : 7902, "sal" : 800, "comm" : null, "deptno"
gr" : 7839, "sal" : 2975, "comm" : null, "deptn
gr" : 7566, "sal" : 3000, "comm" : null, "deptn
: 7788, "sal" : 1100, "comm" : null, "deptno"
" : 7566, "sal" : 3000, "comm" : null, "deptnc
" : 7698, "sal" : 800, "comm" : 1600, "deptn

```

10. Display the details of all the employees in the descending order of ENAME (Hint: use sort() method)

```

22 db.employee_details.find().sort({"ename":-1})

```

```

"ename" : "Ward", "job" : "Salesman", "
"ename" : "Turner", "job" : "Salesman",
"ename" : "Smith", "job" : "Clerk", "hi
"ename" : "Smith", "job" : "Clerk", "hi
"ename" : "Scott", "job" : "Analyst", "
"ename" : "Miller", "job" : "Clerk", "h
"ename" : "Martin", "job" : "Salesman",
"ename" : "King", "job" : "President",
"ename" : "Jones", "job" : "Manager", "
"ename" : "James", "job" : "Clerk", "hi
"ename" : "Ford", "job" : "Analyst", "h
"ename" : "Clark", "job" : "Manager", "
"ename" : "Blake", "job" : "Manager", "

```

11. Display the sum of the salaries of all the employees (Hint: use aggregate() method)

```

6 db.employee_details.aggregate([{$group: {_id:null, sum_val:{$sum:"$sal"}}}])
7
8

```



```
,
{ "_id" : null, "sum_val" : 28225 }
```

12. Display the average salary of all the employees (Hint: use aggregate() method)

```
5
6 db.employee_details.aggregate([{$group: {_id:null, avg_val:{$avg:"$sal"}}}])
7
8
```

```
,
{ "_id" : null, "avg_val" : 1974.1379310344828 }
```

13. Display the maximum salary of all the employees (Hint: use aggregate() method)

```
5
6 db.employee_details.aggregate([{$group: {_id:null, max_val:{$max:"$sal"}}}])
7
8
```

```
,
{ "_id" : null, "max_val" : 5000 }
```

14. Display the minimum salary of all the employees (Hint: use aggregate() method)

```
6 db.employee_details.aggregate([{$group: {_id:null, min_val:{$min:"$sal"}}}])
7
```

```
{ "_id" : null, "min_val" : 800 }
```

15. Display the First three rows of the employee details (Hint: use limit() method)

```
5
6 db.employee_details.aggregate([{$limit: 3}]).pretty();
7
```

```

    "_id" : ObjectId("62dc1ebb862ba03f2ba89ce9"),
    "empno" : 7369,
    "ename" : "Smith",
    "job" : "Clerk",
    "hiredate" : "17-Dec-80",
    "mgr" : 7902,
    "sal" : 800,
    "comm" : null,
    "deptno" : 20
  }
  {
    "_id" : ObjectId("62dc1ebb862ba03f2ba89cea"),
    "empno" : 7499,
    "ename" : "Allen",
    "job" : "Salesman",
    "hiredate" : "20-Feb-81",
    "mgr" : 7698,
    "sal" : 800,
    "comm" : 1600,
    "deptno" : 30
  }
  {
    "id" : ObjectId("62dc1ebb862ba03f2ba89ceb"),

```

16. Display the First row of the employee details (Hint: use limit()method) .

```

6 db.employee_details.aggregate([{$limit: 1}]).pretty();
7

```

```

{
  "_id" : ObjectId("62da3cc07e869a9961d3608e"),
  "empno" : 7369,
  "ename" : "Smith",
  "job" : "Clerk",
  "hiredate" : "17-Dec-80",
  "mgr" : 7902,
  "sal" : 800,
  "comm" : null,
  "deptno" : 20
}

```

17. Display the employee details except first five rows(Hint: use skip() method)

```

5
6 db.employee_details.find().skip(5).pretty()

```

```

{
  "_id" : ObjectId("62dc0f97ab11436dd819226f"),
  "empno" : 7698,
  "ename" : "Blake",
  "job" : "Manager",
  "hiredate" : "01-May-81",
  "mgr" : 7839,
  "sal" : 2450,
  "comm" : null,
  "deptno" : 10
}
{
  "_id" : ObjectId("62dc0f97ab11436dd8192270"),
  "empno" : 7782,
  "ename" : "Clark",
  "job" : "Manager",
  "hiredate" : "09-July-81",
  "mgr" : 7788,
  "sal" : 2450,
  "comm" : null,
  "deptno" : 10
}

```

18. Display the employee details by skipping the first three rows(Hint: use skip() method)

```

6
7 db.employee_details.find().skip(3).pretty()

```

```

{
  "_id" : ObjectId("62dc12e2e1725f73b3fb2453"),
  "empno" : 7566,
  "ename" : "Jones",
  "job" : "Manager",
  "hiredate" : "02-Apr-81",
  "mgr" : 7839,
  "sal" : 2975,
  "comm" : null,
  "deptno" : 20
}
{
  "_id" : ObjectId("62dc12e2e1725f73b3fb2454"),
  "empno" : 7654,
  "ename" : "Martin",
  "job" : "Salesman",
  "hiredate" : "28-July-81",
  "mgr" : 7644,
  "sal" : 1250,
  "comm" : 0.1,
  "deptno" : 30
}

```

19. 19 . Display the employee details by skipping the first three rows(Hint: use skip() method)

```

6
7 db.employee_details.find().skip(3).pretty()

```

```

{
  "_id" : ObjectId("62dc12e2e1725f73b3fb2453"),
  "empno" : 7566,
  "ename" : "Jones",
  "job" : "Manager",
  "hiredate" : "02-Apr-81",
  "mgr" : 7839,
  "sal" : 2975,
  "comm" : null,
  "deptno" : 20
}
{
  "_id" : ObjectId("62dc12e2e1725f73b3fb2454"),
  "empno" : 7654,
  "ename" : "Martin",
  "job" : "Salesman",
  "hiredate" : "14-Jun-81",
  "mgr" : null,
  "sal" : 1250,
  "comm" : 0.1,
  "deptno" : 30
}

```

20. Display only the eighth document(row) of the employees (Hint:uselimit(),skip()methods)

```

5
6 db.employee_details.find().skip(7).limit(1)
7

```

```

"_id" : ObjectId("62dc1e42b68f637b271c3435"), "empno" : 7782, "ena

```

21. Display all the employee details whose salary is greater than 1500 (Hint: use find() method)

```

5
6 db.employee_details.find({sal:{$gt:1500}})
7

```



```

"hiredate" : "02-Apr-81", "mgr" : 7839, "sal" : 2975, "comm" : null, "
"hiredate" : "01-May-81", "mgr" : 7839, "sal" : 2450, "comm" : null, "
"hiredate" : "09-Jun-81", "mgr" : 7839, "sal" : 2850, "comm" : null, "
"hiredate" : "19-Apr-87", "mgr" : 7566, "sal" : 3000, "comm" : null, "
"hiredate" : "17-Nov-81", "mgr" : null, "sal" : 5000, "comm" : null, "

```

22. Display all the employee details whose salary is lesser than 1200 (Hint: use find() method)

```

7 db.employee_details.find({sal:{$lt:1200}})

```

```

"hiredate" : "17-Dec-80", "mgr" : 7902, "sal" : 800, "comm" : null, "de
"hiredate" : "20-Feb-81", "mgr" : 7698, "sal" : 800, "comm" : 1600, '
"hiredate" : "23-May-87", "mgr" : 7788, "sal" : 1100, "comm" : null, "de
"hiredate" : "03-Dec-81", "mgr" : 7698, "sal" : 950, "comm" : null, "de

```

23. Display all the employee details whose salary is equal to 2450 (Hint: use find() method)

```

7 db.employee_details.find({sal:{$eq:2450}})

```

```

"hiredate" : "01-May-81", "mgr" : 7839, "sal" : 2450, "comm" : null, '

```

24. Display all the employee details whose salary is greater than 2500 and job is manager (Hint: use find() method)

```

6
7 db.employee_details.find({$and : [{sal:{$gt:2500}}, {job:"Manager"}]})

```

```

: ObjectId("62dc1ec156abcd86ee6c5c0e"), "empno" : 7566, "ename" : "
: ObjectId("62dc1ec156abcd86ee6c5c11"), "empno" : 7782, "ename" : "

```

```
"job" : "Manager", "hiredate" : "02-Apr-81", "mgr" : 7839, "sal" :
"job" : "Manager", "hiredate" : "09-Jun-81", "mgr" : 7839, "sal" :
```

25. Display all the employee details whose salary is lesser than 1500 or job is clerk (Hint:use find() method)

```
7 db.employee_details.find({$or : [{sal:{$lt:1500}}, {job:"Clerk"}]})
```

```
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89ce9"), "empno" : 7369, "e
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89cea"), "empno" : 7499, "e
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89ceb"), "empno" : 7521, "e
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89ced"), "empno" : 7654, "e
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89cf3"), "empno" : 7876, "e
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89cf4"), "empno" : 7900, "e
{ "_id" : ObjectId("62dc1ebb862ba03f2ba89cf6"), "empno" : 7934, "e
```

```
"ename" : "Smith", "job" : "Clerk", "hiredate" : "17-Dec-80", "mgr
"ename" : "Allen", "job" : "Salesman", "hiredate" : "20-Feb-81", "
"ename" : "Ward", "job" : "Salesman", "hiredate" : "22-Feb-81", "m
"ename" : "Martin", "job" : "Salesman", "hiredate" : "28-Sep-81",
"ename" : "Adam", "job" : "Clerk", "hiredate" : "23-May-87", "mgr"
"ename" : "James", "job" : "Clerk", "hiredate" : "03-Dec-81", "mgr
"ename" : "Miller", "job" : "Clerk", "hiredate" : "23-Jan-82", "mgr
```

```
ate" : "17-Dec-80", "mgr" : 7902, "sal" : 800, "comm" : null, "depti
redate" : "20-Feb-81", "mgr" : 7698, "sal" : 800, "comm" : 1600, "de
edate" : "22-Feb-81", "mgr" : 7698, "sal" : 1250, "comm" : 500, "de
iredate" : "28-Sep-81", "mgr" : 7968, "sal" : 1250, "comm" : 1400,
ce" : "23-May-87", "mgr" : 7788, "sal" : 1100, "comm" : null, "depti
ate" : "03-Dec-81", "mgr" : 7698, "sal" : 950, "comm" : null, "depti
ate" : "23-Jan-82", "mgr" : 7782, "sal" : 1300, "comm" : null, "de
```

