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List employee number and name with lower case name who are CLERKS

```
sqlite> .mode columns
```

```
sqlite> .header on
```

```
sqlite> select empno, lower(ename) from emp where job = 'CLERK';
```

```
EMPNO    lower(ename)
```

```
-----
```

```
7900     james
```

```
7369     smith
```

```
7876     adams
```

```
7934     miller
```

List employee names with five \*'s preceding and following the name

```
sqlite> select '*****' || ename || '*****' from emp;
```

```
'*****' || ename || '*****'
```

```
-----
```

```
*****KING*****
```

```
...
```

```
*****MILLER*****
```

```
14 lines total
```

List employee names in lower case with leading and final vowels removed

```
sqlite> select trim(ename, 'AEIOU') from emp;
```

```
trim(ename, 'AEIOU')
```

```
-----
```

```
KING
```

```
BLAK
```

```
...
```

```
DAMS
```

```
MILLER
```

```
14 Lines in total
```

List the avg sal of emp by job and have avg sal > 4000

```
sqlite> select job, avg(sal) from emp group by job having avg(sal) > 4000;
```

```
JOB      avg(sal)
```

```
-----
```

```
PRESIDENT 5000.0
```

Count the number of employees who may receive a commission

```
sqlite> select count(ename) from emp where comm not NULL;
```

```
count(ename)
```

```
-----
```

```
4
```

List deptno and avg sal for each dept

```
sqlite> select deptno, avg(sal) from emp group by deptno;
```

```
DEPTNO    avg(sal)
```

```
-----
```

```
10        2916.66666666667
```

```
20      2175.0
30      1566.666666666667
```

Find min, max, and avg sal of employess

```
sqlite> select min(sal), avg(sal), max(sal) from emp;
```

```
min(sal)  avg(sal)      max(sal)
-----  -
800       2073.21428571429  5000
```

Of CLERKS

```
sqlite> select min(sal), avg(sal), max(sal) from emp where job= 'CLERK';
```

```
min(sal)  avg(sal)  max(sal)
-----  -
800       1037.5    1300
```

For each job

```
sqlite> select job, min(sal), avg(sal), max(sal) from emp group by job;
```

```
JOB      min(sal)  avg(sal)  max(sal)
-----  -
ANALYST   3000      3000.0    3000
CLERK     800       1037.5    1300
MANAGER   2450      2758.33333 2975
PRESIDENT 5000      5000.0    5000
SALESMAN  1250      1400.0    1600
```

Same as last but with comm

Find avg credit limit for customers by state for states with limit less than 7500

```
sqlite> select state, avg(creditlimit) from customer where creditlimit < 7500 group by state;
```

```
STATE    avg(creditlimit)
-----  -
CA       5200.0
```

List avg sal by job where avg sal > 2500, order in desc

```
sqlite> select job, avg(sal) from emp where sal > 2500 group by job order by sal desc;
```

```
JOB      avg(sal)
-----  -
PRESIDENT 5000.0
ANALYST   3000.0
MANAGER   2912.5
```

List avg, min, and max sal by job where min > 2000 in asc order by job

```
sqlite> select job, avg(sal), min(sal), max(sal) from emp where sal > 2000 group by job order by job asc;
```

```
JOB      avg(sal)  min(sal)  max(sal)
-----  -
ANALYST   3000.0    3000      3000
MANAGER   2758.33333 2450      2975
PRESIDENT 5000.0    5000      5000
```



