

CORRELATED QUERIES: -

48. list all employees who earn more than average salary of their own department

```
mysql> select * from emp e where sal > (select avg(sal) from emp a where a.deptno=e.deptno);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	1981-02-22	1937.50	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	3421.25	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	2837.50	1400.00	30
7788	SCOTT	ANALYST	7566	1982-12-09	3450.00	NULL	20
7839	KING	manager	7777	1981-11-17	862.50	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1725.00	0.00	30
7902	FORD	ANALYST	7566	1981-12-03	3450.00	NULL	20

7 rows in set (0.00 sec)

49. list all employees who earn sal < avg (sal)than their managers salary (mgr)

```
mysql> select * from emp e where sal < (select avg(sal) from emp a where a.mgr = e.mgr);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	1981-02-20	30.00	300.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	30.00	NULL	30
7782	CLARK	manager	7777	1981-06-09	422.63	NULL	10
7900	JAMES	CLERK	7698	1981-12-03	1092.50	NULL	30
7934	MILLER	manager	7777	1982-01-23	30.00	NULL	10

5 rows in set (0.00 sec)

50. list all employees who are earning more than average salary of their job

```
mysql> select * from emp e where sal > (select avg(sal) from emp a where a.manager = e.manager);
ERROR 1054 (42S22): Unknown column 'a.manager' in 'where clause'
mysql> select * from emp e where sal > (select avg(sal) from emp a where a.job = e.job );
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	1981-02-22	1937.50	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	3421.25	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	2837.50	1400.00	30
7844	TURNER	SALESMAN	7698	1981-09-08	1725.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1265.00	NULL	20

5 rows in set (0.00 sec)

51. display empno,name,department name and grade (use emp,dept and salgrade table)

```
mysql> select empno,ename,dname,grade from emp e,dept d,salgrade s where d.deptno=e.deptno and e.sal between losal and hisal ;
```

empno	ename	dname	grade
7369	SMITH	RESEARCH	1
7499	ALLEN	SALES	3
7521	WARD	SALES	2
7566	JONES	RESEARCH	4
7654	MARTIN	SALES	2
7698	BLAKE	SALES	4
7782	CLARK	ACCOUNTING	4
7788	SCOTT	RESEARCH	4
7839	KING	ACCOUNTING	5
7844	TURNER	SALES	3
7876	ADAMS	RESEARCH	1
7900	JAMES	SALES	1
7902	FORD	RESEARCH	4
7934	MILLER	ACCOUNTING	2

52. list all employees number,name, mgrno and manager name

```
mysql> select e.empno,e.ename,e.mgr,m.ename manger_name from emp e inner join emp m on m.empno=e.mgr;
```

empno	ename	mgr	manger_name
7369	SMITH	7902	FORD
7499	ALLEN	7698	BLAKE
7521	WARD	7698	BLAKE
7566	JONES	7839	KING
7654	MARTIN	7698	BLAKE
7698	BLAKE	7839	KING
7782	CLARK	7839	KING
7788	SCOTT	7566	JONES
7844	TURNER	7698	BLAKE
7876	ADAMS	7788	SCOTT
7900	JAMES	7698	BLAKE
7902	FORD	7566	JONES
7934	MILLER	7782	CLARK