

## DBT Assignment 1

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1. Select all information from Salgrade table.

```
mysql> desc salgrade;
```

Field	Type	Null	Key	Default	Extra
grade	int	YES		NULL	
losal	int	YES		NULL	
hisal	int	YES		NULL	

```
3 rows in set (0.02 sec)
```

  

```
mysql> select * from salgrade;
```

grade	losal	hisal
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

```
5 rows in set (0.00 sec)
```

  

```
mysql>
```

2. Select all information from emp table.

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
empno	int	NO	PRI	NULL	
ename	varchar(10)	YES		NULL	
job	varchar(9)	YES		NULL	
mgr	int	YES		NULL	
hiredate	date	YES		NULL	
sal	decimal(7,2)	YES		NULL	
comm	decimal(7,2)	YES		NULL	
deptno	int	YES	MUL	NULL	

```
8 rows in set (0.01 sec)
```

```
mysql> select * from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-21	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-08	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1987-07-13	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1987-07-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

```
14 rows in set (0.01 sec)
```

3. Select all information from dept table.

```
mysql> desc dept;
```

Field	Type	Null	Key	Default	Extra
deptno	int	NO	PRI	NULL	
dname	varchar(14)	YES		NULL	
loc	varchar(13)	YES		NULL	

```
3 rows in set (0.01 sec)
```

```
mysql> select * from dept;
```

deptno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
4 rows in set (0.00 sec)
```

4. List all employees who have a salary between 1000 and 2000.

```
mysql> select * from emp where sal between 1000 and 2000;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-21	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-08	1250.00	1400.00	30
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1987-07-12	1100.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

```
6 rows in set (0.01 sec)
```

5. List department numbers and names in department name order.

```
mysql> select * from dept order by dname;
```

deptno	dname	loc
10	ACCOUNTING	NEW YORK
40	OPERATIONS	BOSTON
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
4 rows in set (0.00 sec)
```

6. Display all the different job types.

```
mysql> select job from emp;
```

job
CLERK
SALESMAN
SALESMAN
MANAGER
SALESMAN
MANAGER
MANAGER
ANALYST
PRESIDENT
SALESMAN
CLERK
CLERK
ANALYST
CLERK

```
14 rows in set (0.00 sec)
```

7. List the details of the employees in departments 10 and 20 in

alphabetical order of employee names.

```
mysql> select * from emp where deptno = 10 or deptno= 20 order by ename;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7876	ADAMS	CLERK	7788	1987-07-12	1100.00	NULL	20
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
7788	SCOTT	ANALYST	7566	1987-07-13	3000.00	NULL	20
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20

```
8 rows in set (0.01 sec)
```

8. List names and jobs of all clerks in department 20.

```
mysql> select ename, job from emp where deptno =20 and job ='CLERK';
```

ename	job
SMITH	CLERK
ADAMS	CLERK

```
2 rows in set (0.00 sec)
```

9. Display all employee names which have TH or LL in them.

```
mysql> select ename from emp where instr (ename,'TH') or instr (ename,'LL');
```

ename
SMITH
ALLEN
MILLER

```
3 rows in set (0.01 sec)
```

10. List the details of the employees who have a manager.

```
mysql> select * from emp where job = 'MANAGER';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10

```
3 rows in set (0.00 sec)
```

11. Display the name and the total remuneration for all employees.

```
mysql> select ename, sal+ifnull(comm,0) "Total_Remuneration" from emp;
```

ename	Total_Remuneration
SMITH	800.00
ALLEN	1900.00
WARD	1750.00
JONES	2975.00
MARTIN	2650.00
BLAKE	2850.00
CLARK	2450.00
SCOTT	3000.00
KING	5000.00
TURNER	1500.00
ADAMS	1100.00
JAMES	950.00
FORD	3000.00
MILLER	1300.00

```
14 rows in set (0.00 sec)
```

12. Display name, annual salary and commission of all sales people whose monthly salary is greater than their commission. The output should be ordered by salary highest first. If two or more employees have the same salary sort by employee name, within the highest salary order.

```
mysql> select ename, sal * 12 as "annual_salary", comm from emp where job ='SALESMAN' AND (sal*12 > comm) order by annual_salary desc;
```

ename	annual_salary	comm
ALLEN	19200.00	300.00
TURNER	18000.00	0.00
WARD	15000.00	500.00
MARTIN	15000.00	1400.00

4 rows in set (0.02 sec)

13.Display all employees who were hired during 1982.

```
mysql> select
-> * from emp where year(hiredate) =1982;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

1 row in set (0.01 sec)

14.Display the employee name and job by concatenating them and give an appropriate heading.

```
mysql> SELECT CONCAT(ename, ' is a ', job) AS 'Employee Details'
-> FROM emp;
```

Employee Details
SMITH is a CLERK
ALLEN is a SALESMAN
WARD is a SALESMAN
JONES is a MANAGER
MARTIN is a SALESMAN
BLAKE is a MANAGER
CLARK is a MANAGER
SCOTT is a ANALYST
KING is a PRESIDENT
TURNER is a SALESMAN
ADAMS is a CLERK
JAMES is a CLERK
FORD is a ANALYST
MILLER is a CLERK

14 rows in set (0.12 sec)

15.Display the employee name and the job in brackets.

```
mysql> SELECT CONCAT(ename, ' (' , job, ')') AS 'Employee Info'
-> FROM emp;
```

Employee Info
SMITH (CLERK)
ALLEN (SALESMAN)
WARD (SALESMAN)
JONES (MANAGER)
MARTIN (SALESMAN)
BLAKE (MANAGER)
CLARK (MANAGER)
SCOTT (ANALYST)
KING (PRESIDENT)
TURNER (SALESMAN)
ADAMS (CLERK)
JAMES (CLERK)
FORD (ANALYST)
MILLER (CLERK)

14 rows in set (0.00 sec)

16.It has been discovered that the sales people in department 30 are not all male. Hence display the job of salesman as salesperson.

```
mysql> SELECT ename,
-> CASE
-> WHEN deptno = 30 AND job = 'SALESMAN' THEN 'SALESPERSON'
-> ELSE job
-> END AS job_title
-> FROM emp;
```

ename	job_title
SMITH	CLERK
ALLEN	SALESPERSON
WARD	SALESPERSON
JONES	MANAGER
MARTIN	SALESPERSON
BLAKE	MANAGER
CLARK	MANAGER
SCOTT	ANALYST
KING	PRESIDENT
TURNER	SALESPERSON
ADAMS	CLERK
JAMES	CLERK
FORD	ANALYST
MILLER	CLERK

14 rows in set (0.01 sec)