



## SQL for Data Engineering

### Sample Data Preparation

#### emp Table

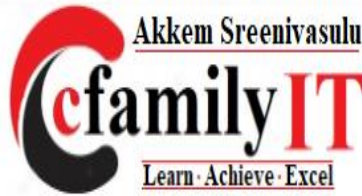
empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1993-06-13	800.00	0.00	20
7499	ALLEN	SALESMAN	7698	1998-08-15	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1996-03-26	1250.00	500.00	30
7566	JONES	MANAGER	7839	1995-10-31	2975.00		20
7698	BLAKE	MANAGER	7839	1992-06-11	2850.00		30
7782	CLARK	MANAGER	7839	1993-05-14	2450.00		10
7788	SCOTT	ANALYST	7566	1996-03-05	3000.00		20
7839	KING	PRESIDENT		1990-06-09	5000.00	0.00	10
7844	TURNER	SALESMAN	7698	1995-06-04	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1999-06-04	1100.00		20
7900	JAMES	CLERK	7698	2000-06-23	950.00		30
7934	MILLER	CLERK	7782	2000-01-21	1300.00		10
7902	FORD	ANALYST	7566	1997-12-05	3000.00		20
7654	MARTIN	SALESMAN	7698	1998-12-05	1250.00	1400.00	30

#### dept Table

deptno	dname	location
10	Accounting	New York
20	Research	Dallas
30	Sales	Chicago
40	Operations	Boston

#### salgrade Table

grade	losal	hisal
1	700.00	1200.00
2	1201.00	1400.00
4	2001.00	3000.00
5	3001.00	99999.00



## SQL for Data Engineering

3	1401.00	2000.00
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### The MySQL schema for this database

```
DROP TABLE IF EXISTS dept;  
DROP TABLE IF EXISTS salgrade;  
DROP TABLE IF EXISTS emp;
```

```
CREATE TABLE salgrade(  
  grade int(4) not null primary key,  
  losal decimal(10,2),  
  hisal decimal(10,2));
```

```
CREATE TABLE dept(  
  deptno int(2) not null primary key,  
  dname varchar(50) not null,  
  location varchar(50) not null);
```

```
CREATE TABLE emp(  
  empno int(4) not null primary key,  
  ename varchar(50) not null,  
  job varchar(50) not null,  
  mgr int(4),  
  hiredate date,  
  sal decimal(10,2),  
  comm decimal(10,2),  
  deptno int(2) not null);
```

```
insert into dept values (10,'Accounting','New York');  
insert into dept values (20,'Research','Dallas');  
insert into dept values (30,'Sales','Chicago');  
insert into dept values (40,'Operations','Boston');  
insert into salgrade values (1,700,1200);  
insert into salgrade values (2,1201,1400);  
insert into salgrade values (3,1401,2000);  
insert into salgrade values (4,2001,3000);  
insert into salgrade values (5,3001,99999);
```

### **MySQL accepts date in DD-MMM-YY**

```
insert into emp values (7369,'SMITH','CLERK',7902,'13-JUN-93',800,0.00,20);
```



## **SQL for Data Engineering**

insert into emp values (7499,'ALLEN','SALESMAN',7698,'15-AUG-98',1600,300,30);  
insert into emp values (7521,'WARD','SALESMAN',7698,'26-MAR-96',1250,500,30);  
insert into emp values (7566,'JONES','MANAGER',7839,'31-OCT-95',2975,null,20);  
insert into emp values (7698,'BLAKE','MANAGER',7839,'11-JUN-92',2850,null,30);  
insert into emp values (7782,'CLARK','MANAGER',7839,'14-MAY-93',2450,null,10);  
insert into emp values (7788,'SCOTT','ANALYST',7566,'5-MAR-96',3000,null,20);  
insert into emp values (7839,'KING','PRESIDENT',null,'9-JUN-90',5000,0,10);  
insert into emp values (7844,'TURNER','SALESMAN',7698,'4-JUN-95',1500,0,30);  
insert into emp values (7876,'ADAMS','CLERK',7788,'4-JUN-99',1100,null,20);  
insert into emp values (7900,'JAMES','CLERK',7698,'23-JUN-00',950,null,30);  
insert into emp values (7934,'MILLER','CLERK',7782,'21-JAN-00',1300,null,10);  
insert into emp values (7902,'FORD','ANALYST',7566,'5-DEC-97',3000,null,20);  
insert into emp values (7654,'MARTIN','SALESMAN',7698,'5-DEC-98',1250,1400,30);

**By**

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