Assignment 1 My SQL Queries

-- USE MYSQL;

-- CREATE DATABASE TESTING;

USE TESTING;

-- CREATE ddl DATA DEFINATION

-- CREATE TABLE DEPT(

-- DEPTNO INT NOT NULL,

-- DNAME VARCHAR(20) NOT NULL,

-- LOC VARCHAR(20) NOT NULL

-- );

-- DROP TABLE DEPT;

-- ALTER TABLE DEPT

-- ADD CONSTRAINT Pk\_DEPTNO PRIMARY KEY (DEPTNO);-

-- DML DATA MANIPULATION

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');

CREATE TABLE EMP

(

EMPNO int NOT NULL ,

ENAME VARCHAR(20),

JOB VARCHAR(9),

MGR int ,

HIREDATE DATETIME,

SAL NUmeric(7, 2),

COMM Numeric(7, 2),

DEPTNO int

);

ALTER TABLE EMP

ADD constraint pk\_EMPNO PRIMARY KEY (EMPNO);

ALTER TABLE EMP

ADD foreign key (DEPTNO) REFERENCES DEPT(DEPTNO);

-- EMP NO IS SUPERSET AND MGR NO IS SUBSET

ALTER TABLE EMP

ADD foreign key (MGR) REFERENCES EMP(EMPNO);

INSERT INTO EMP VALUES (7839, 'KING', 'PRESIDENT', NULL, str\_to\_date('11/17/1981','%m/%d/%Y') , 5000, NULL, null);

INSERT INTO EMP VALUES (7566, 'JONES', 'MANAGER', 7839, str\_to\_date('04/2/1981' ,'%m/%d/%Y'), 2975, NULL, 20);

INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER', 7839, str\_to\_date('05/01/1981' ,'%m/%d/%Y'), 2850, NULL, 30);

INSERT INTO EMP VALUES (7782, 'CLARK', 'MANAGER', 7839, str\_to\_date('06/09/1981' ,'%m/%d/%Y'), 2450, NULL, 10);

INSERT INTO EMP VALUES (7999, 'RAHUL\_DRAVID', 'MANAGER', 7839, str\_to\_date('01/01/2011' ,'%m/%d/%Y'), 4000, NULL, 10);

INSERT INTO EMP VALUES (7788, 'SCOTT', 'ANALYST', 7566, str\_to\_date('12/09/1982' ,'%m/%d/%Y'), 3000, NULL, 20);

INSERT INTO EMP VALUES (7902, 'FORD', 'ANALYST', 7566, str\_to\_date('12/03/1981' ,'%m/%d/%Y'), 3000, NULL, 20);

INSERT INTO EMP VALUES (7499, 'ALLEN', 'SALESMAN', 7698, str\_to\_date('02/20/1981' ,'%m/%d/%Y'), 1600, 300, 30);

INSERT INTO EMP VALUES (7521, 'WARD', 'SALESMAN', 7698, str\_to\_date('02/22/1981' ,'%m/%d/%Y'), 1250, 500, 30);

INSERT INTO EMP VALUES (7654, 'MARTIN', 'SALESMAN', 7698, str\_to\_date('09/28/1981' ,'%m/%d/%Y'), 1250, 1400, 30);

INSERT INTO EMP VALUES (7844, 'TURNER', 'SALESMAN', 7698, str\_to\_date('09/08/1981' ,'%m/%d/%Y'), 1500, 0, 30);

INSERT INTO EMP VALUES (7900, 'JAMES', 'CLERK', 7698, str\_to\_date('12/03/1981' ,'%m/%d/%Y'), 950, NULL, 30);

INSERT INTO EMP VALUES (7369, 'SMITH', 'CLERK', 7902, str\_to\_date('12/17/1980' ,'%m/%d/%Y'), 800, NULL, 20);

INSERT INTO EMP VALUES (7876, 'ADAMS', 'CLERK', 7788, str\_to\_date('01/12/2003' ,'%m/%d/%Y'), 1100, NULL, 20);

INSERT INTO EMP VALUES (7934, 'MILLER', 'CLERK', 7782, str\_to\_date('01/23/2002' ,'%m/%d/%Y'), 1300, NULL, 10);

INSERT INTO EMP VALUES (7901, 'RAHUL\_DRAVID', 'MANAGER', 7839, str\_to\_date('01/23/2012' ,'%m/%d/%Y'), 3000, NULL, 10);

USE TESTING;

SELECT \* FROM EMP;

SELECT \* FROM dEPT;

- 1. List all manager data

SELECT EMPNO,ENAME,JOB FROM EMP WHERE JOB='MANAGER';

-- 2. List all employees who are working as manager or analyst or clerk

SELECT EMPNO,ENAME,JOB FROM EMP WHERE JOB='CLERK'OR JOB='MANAGER' OR JOB='ANALYST';

-- 3. List emp who are earning sal between 3000 and 5000 (inclusive of limit)

SELECT EMPNO,ENAME,SAL FROM EMP WHERE SAL>=3000 AND SAL<=5000;

-- 4. List emp who are working as manager or analyst or clerk and earning between 3000 and 5000

SELECT EMPNO,ENAME,JOB,SAL FROM EMP

WHERE

(JOB='CLERK'OR JOB='MANAGER' OR JOB='ANALYST' )AND

SAL BETWEEN 3000 AND 5000;

-- 5. List all emp who are earning comm

select \* from emp where COMM is NULL;

-- 6. List all emp whose comm is not null

select \* from emp where COMM is NOT NULL;

-- 7. List all employees whose name starts with S

select \* from emp where ename like 'S%';

-- 8. List all employees whose name ends with R

select \* from emp where ename like '%R';

-- 10. List all employees whose name contains A as second letter

select \* from emp where ename like '\_A%';

-- 11. List all employees whose name starts with either M or S

select \* from emp where ename like 'M%' or 'S%';

-- 12. List all employees whose name starts between A to M

select \* from emp where ename between 'a' and 'm';

-- 13. List all employees whose name contains \_

select \* from emp where ename like '%\_';

-- 14. List all employees who are working as manager in either dept 10 or 20 and all clerk for dept 30

select \* from emp where job ='manager' and deptno in ('10','20') or job ='clerk' and deptno = 30;

-- 15. List ename, sal and bonus as 10% of salary

select ename, sal, (sal\*10/100) as bonus from emp;

-- 16. List emp data as per the ascending order of name

SELECT \*

FROM emp

ORDER BY ename ASC;

-- 17. List all as per their salary highest to lowest

select \* from emp order by sal desc;

-- 18. List emp as per their dept, with in dept highest to lowest sal

select \* from emp group by deptno order by sal desc;

-- 19. List top 3 highest paid emp

select \* from emp order by sal desc limit 3;

-- 20. Return rank based on specified criteria if two emp have same salary they both get same number and next number will be skipped

select empno, ename, deptno, sal,

rank() over(partition by deptno order by sal desc) as 'rank' from emp;

-- 21. List the different job name

select distinct job from emp;

-- 22. List total organization salary

SELECT SUM(sal) AS "Total Salary" FROM emp;

-- 23. List dept wise total salary

select sum(sal), deptno from emp group by DEPTNO;

-- 24. List Jobwise emp count

SELECT job, COUNT(\*)

FROM emp

GROUP BY job;

-- 25. List all emp who have joined in month of Feb

Select \* from EMP where month(hiredate)='02';

-- 26. List emp count joined between 1981 and 1983

SELECT \*

FROM emp

WHERE HIREDATE

BETWEEN '1981-01-01'

AND '1983-12-31';

-- 27. List how many years of service completed by each employee arrange based on tenure highest to lowest

select ENAME, year(now())-year(hiredate) as 'Tenure' from emp order by tenure desc;

-- 29. Return consecutive ranking values based on specified criteria

select empno, ename, deptno, sal,

dense\_rank() over(partition by deptno order by sal desc) as 'rank' from em