#### NIMISHA JAMES

### S2(R)MCA, ROLL NO:11

1.create table countries(country id char(2),country name varchar(20),region id int(10));

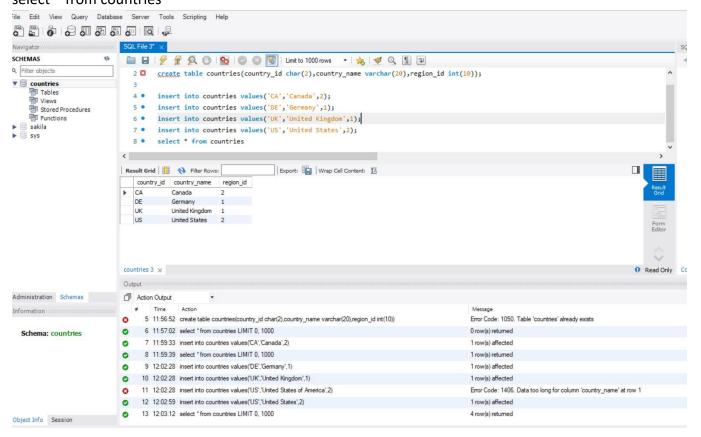
insert into countries values('CA','Canada',2);

insert into countries values('DE','Germany',1);

insert into countries values('UK','United Kingdom',1);

insert into countries values('US','United States',2);

### select \* from countries



#### 2.

create table departments(department\_id numeric(4)NOT NULL,department\_name varchar(30)NOT NULL,manager\_id numeric(6),location\_id numeric(4));

insert into departments values(10,'Administration',200,1700);

insert into departments values(20, 'marketing', 201, 1800);

insert into departments values(50, 'shipping', 124, 1500);

insert into departments values(60, 'IT', 103, 1400);

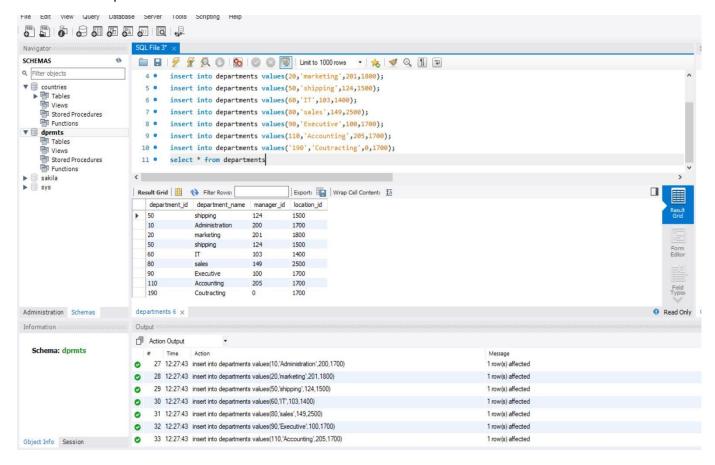
insert into departments values(80, 'sales', 149, 2500);

insert into departments values(90, 'Executive', 100, 1700);

insert into departments values(110, 'Accounting', 205, 1700);

insert into departments values('190', 'Coutracting', 0, 1700);

### select \* from departments



### 3.

create table employees(employee\_id numeric(6)NOT NULL,first\_name varchar(20),last\_name varchar(25),email varchar(25),phone\_numer varchar(25),hire\_date date,job\_id varchar(10),salary numeric(8,2),commission\_pct numeric(2,2),manager decimal(6),department\_id decimal(4));

insert into employees values (100, 'steven', 'king', 'sking', '515.123.4567', '1987-06-17', 'ad\_pres', 24000, NULL, NULL, 90);

insert into employees values (101, 'neena', 'kochhar', 'kochhar', '515.123.4568', '1989-09-21', 'ad\_vp', 24000, NULL, 100, 90);

insert into employees values (102,'lex','de haan','ldehaan','515.123.4569','1993-01-13','ad\_vp',17000,NULL,100,90);

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insert into employees values (103, 'alexander', 'hunold', 'ahunold', '590.423.4567', '1990-01-03', 'it prog', 9000, NULL, 102, 60);
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insert into employees values (104, 'bruce', 'ernst', 'bernst', '590.423.4568', '1991-05-21', 'it\_prog', 6000, NULL, 103, 60);

insert into employees values (107, 'diana', 'lorentz', 'dlorentz', '590.423.5567', '1999-02-07', 'it\_prog', 4200, NULL, 103, 60);

insert into employees values (124,'kevin','mourgos','kmourgos','650.123.5234','1999-11-16','st\_man',5800,NULL,100,50);

insert into employees values (141, 'trenaa', 'rajs', 'trajs', '650.121.8009', '1995-10-17', 'st clerk', 3500, NULL, 124, 50);

insert into employees values (142, 'curtis', 'davies', 'cdavies', '650.121.2994', '1997-01-29', 'st\_clerk', 3100, NULL, 124, 50);

insert into employees values (143, 'randall', 'matos', 'rmatos', '605.121.2874', '1998-03-15', 'st clerk', 2600, NULL, 124, 50);

insert into employees values (144, 'peter', 'vargas', 'pvargas', '605.121.2004', '1998-07-09', 'st\_clerk', 2500, NULL, 124, 50);

insert into employees values (149, 'eleni', 'zlotkay', 'ezlotkay', '011.44.1344.429018', '2000-01-29', 'sa man', 10500, 2,100,80);

insert into employees values (174,'ellen','abel','eabel','011.44.1644.429267','1996-05-11','sa rep',11000,.3,149,80);

insert into employees values (176, 'jonathon', 'tylor', 'jtylor', '011.44.1644.429265', '1998-03-24', 'sa\_rep', 8600, 2,149,80);

insert into employees values (178, 'kimberely', 'grant', 'kgrant', '011.44.1644.429263', '1999-05-24', 'sa\_rep', 7000, .15, 149, NULL);

insert into employees values (200, 'jennifer', 'whalen', 'jwhalen', '515.123.4444', '1987-09-17', 'ad asst', 4400, NULL, 101, 10);

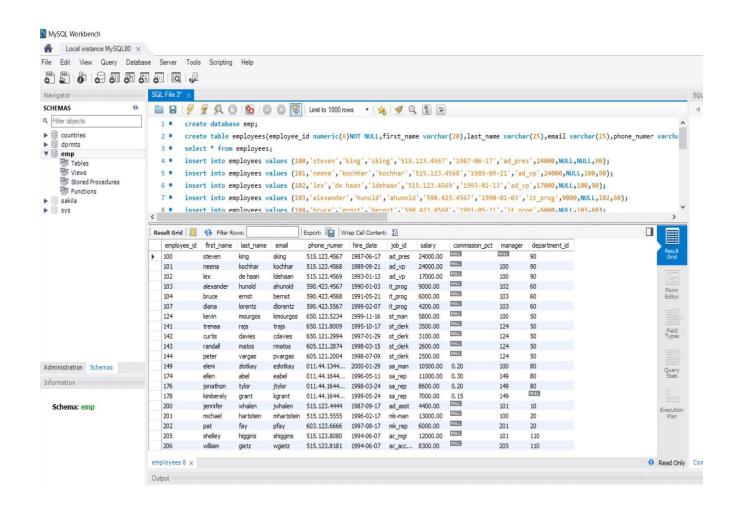
insert into employees values (201, 'michael', 'hartstein', 'mhartstein', '515.123.5555', '1996-02-17', 'mkman', 13000, NULL, 100, 20);

insert into employees values (202, 'pat', 'fay', 'pfay', '603.123.6666', '1997-08-17', 'mk rep', 6000, NULL, 201, 20);

insert into employees values (205, 'shelley', 'higgins', 'shiggins', '515.123.8080', '1994-06-07', 'ac\_mgr', 12000, NULL, 101, 110);

insert into employees values (206, 'william', 'gietz', 'wgietz', '515.123.8181', '1994-06-07', 'ac account', 8300, NULL, 205, 110);

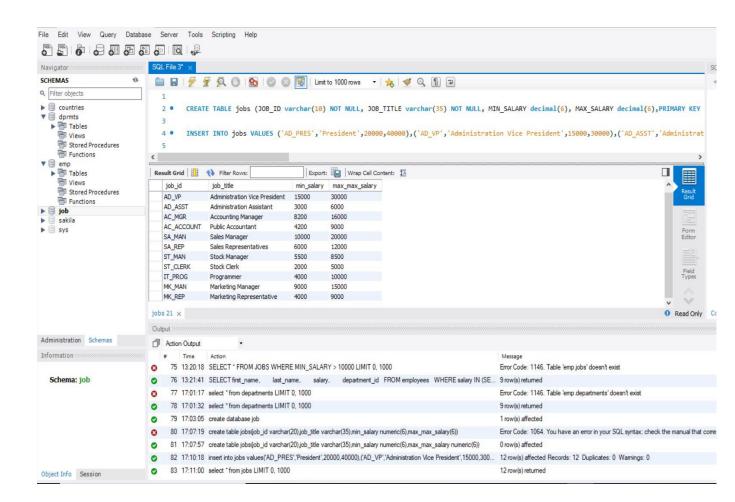
select \* from employees;



4. CREATE TABLE jobs (JOB\_ID varchar(10) NOT NULL, JOB\_TITLE varchar(35) NOT NULL, MIN\_SALARY decimal(6), MAX\_SALARY decimal(6), PRIMARY KEY (JOB\_ID));

INSERT INTO jobs VALUES ('AD\_PRES','President',20000,40000),('AD\_VP','Administration Vice President',15000,30000),('AD\_ASST','Administration Assistant',3000,6000),('AC\_MGR','Accounting Manager',8200,16000),('AC\_ACCOUNT','Public Accountant',4200,9000),('SA\_MAN','Sales Manager',10000,20000),('SA\_REP','Sales Representatives',6000,12000),('ST\_MAN','Stock Manager',5500,8500),('ST\_CLERK','Stock Clerk',2000,5000),('IT\_PROG','Programmer',4000,10000),('MK\_MAN','Marketing Manager',9000,15000),('MK\_REP','Marketing Representative',4000,9000);

Select \* from jobs

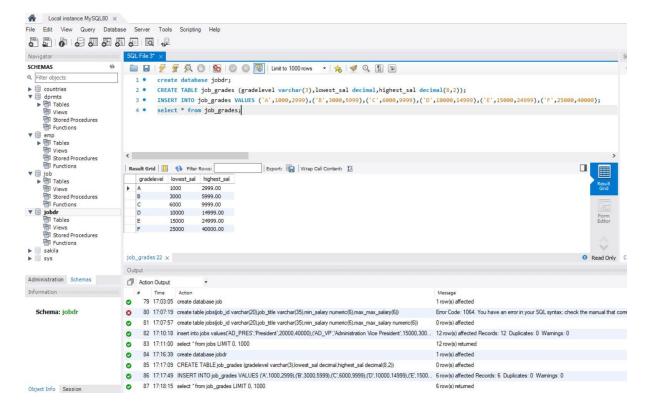


5.CREATE TABLE job\_grades (gradelevel varchar(3),lowest\_sal decimal,highest\_sal decimal(8,2));

#### INSERT INTO job\_grades VALUES

('A',1000,2999),('B',3000,5999),('C',6000,9999),('D',10000,14999),('E',15000,24999),('F',25000,40000);

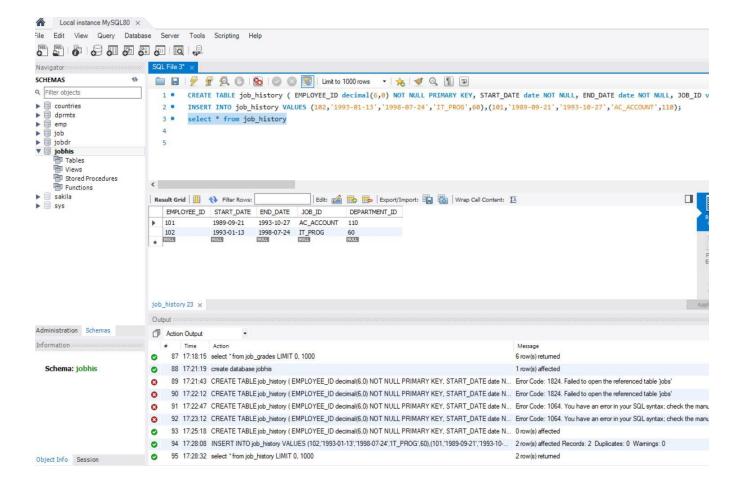
## select \* from job\_grades;



6. CREATE TABLE job\_history ( EMPLOYEE\_ID decimal(6,0) NOT NULL PRIMARY KEY, START\_DATE date NOT NULL, END\_DATE date NOT NULL, JOB\_ID varchar(10) NOT NULL, DEPARTMENT\_ID decimal(4,0));

INSERT INTO job\_history VALUES (102,'1993-01-13','1998-07-24','IT\_PROG',60),(101,'1989-09-21','1993-10-27','AC\_ACCOUNT',110);

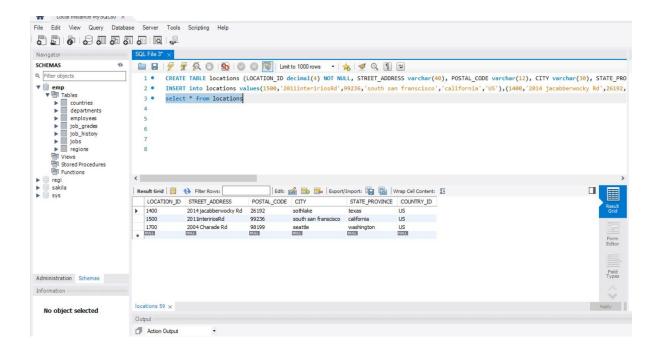
select \* from job\_history



7.CREATE TABLE locations (LOCATION\_ID decimal(4) NOT NULL, STREET\_ADDRESS varchar(40), POSTAL\_CODE varchar(12), CITY varchar(30), STATE\_PROVINCE varchar(25) NOT NULL, COUNTRY\_ID char(2), PRIMARY KEY (LOCATION\_ID));

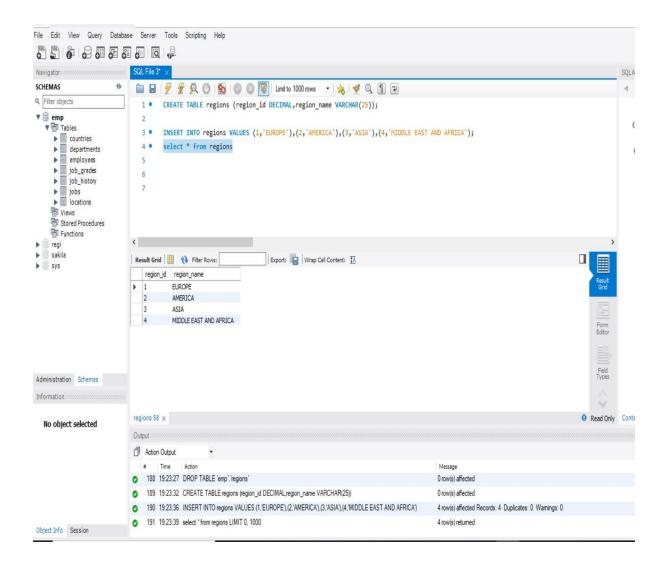
INSERT into locations values(1500,'2011inteririosRd',99236,'south san franscisco','california','US'),(1400,'2014 jacabberwocky Rd',26192,'sothlake','texas','US'),(1700,'2004 Charade Rd',98199,'seattle','washington','US');

select \* from locations



8.CREATE TABLE regions (region\_id DECIMAL,region\_name VARCHAR(25));

INSERT INTO regions VALUES (1,'EUROPE'),(2,'AMERICA'),(3,'ASIA'),(4,'MIDDLE EAST AND AFRICA'); select \* from regions

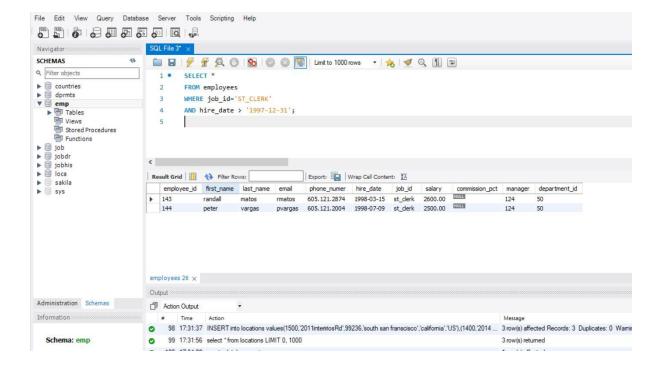


#### 1.SELECT \*

FROM employees

WHERE job\_id = 'ST\_CLREK'

AND hire\_date > '1997-12-31';

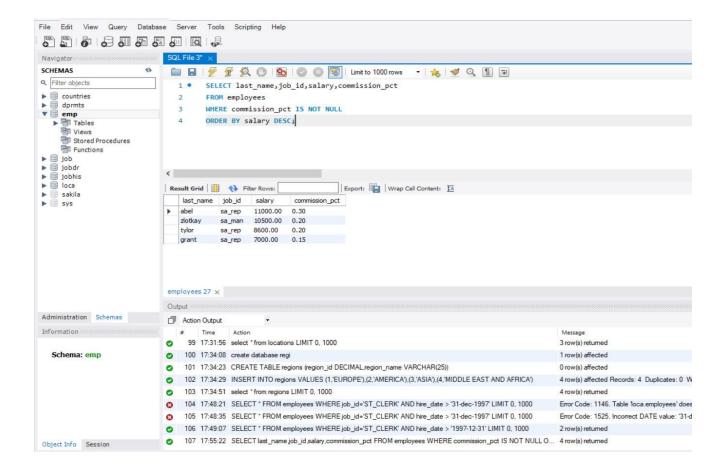


### 2. SELECT last\_name,job\_id,salary,commission\_pct

FROM employees

WHERE commission\_pct IS NOT NULL

ORDER BY salary DESC;



3. SELECT 'The salary of '||last\_name||' after a 10% raise is '

|| ROUND(salary\*1.10) "New salary"

FROM employees

WHERE commission\_pct IS NULL;

4. SELECT last\_name,

TRUNC(MONTHS\_BETWEEN(SYSDATE, hire\_date) / 12) YEARS,

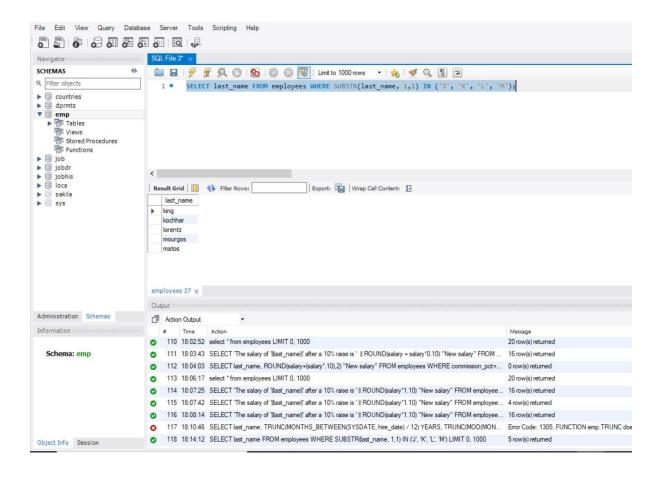
TRUNC(MOD(MONTHS\_BETWEEN(SYSDATE, hire\_date), 12))

MONTHS

FROM employees

ORDER BY years DESC, MONTHS desc;

5. SELECT last\_name FROM employees WHERE SUBSTR(last\_name, 1,1) IN ('J', 'K', 'L', 'M');



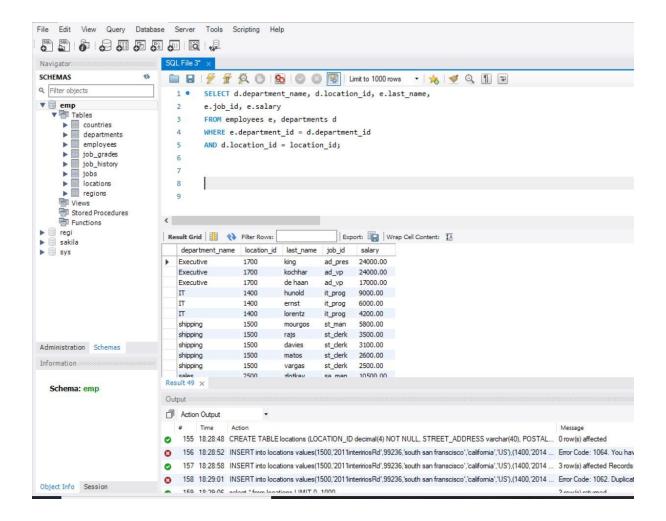
6. SELECT d.department\_name, d.location\_id, e.last\_name,

e.job\_id, e.salary

FROM employees e, departments d

WHERE e.department\_id = d.department\_id

AND d.location\_id = location\_id;



# 7. SELECT count(\*)

#### FROM employees

WHERE last\_name LIKE '%n';

