Roshan Thomas

S2(R)MCA, ROLL NO:15

1.create table countries(country_id char(2),country_name varchar(20),region_id int(10));

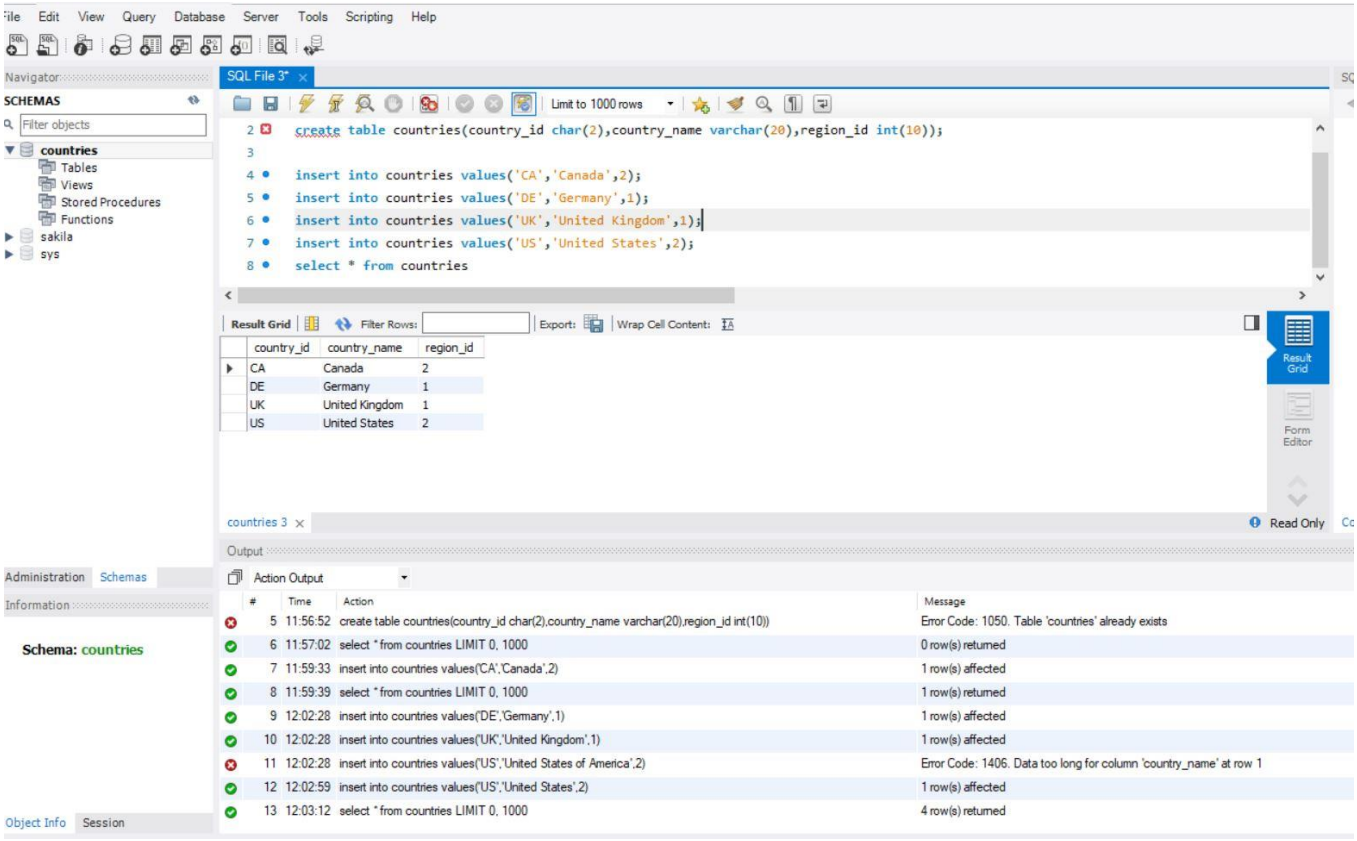
insert into countries values('CA','Canada',2);

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);

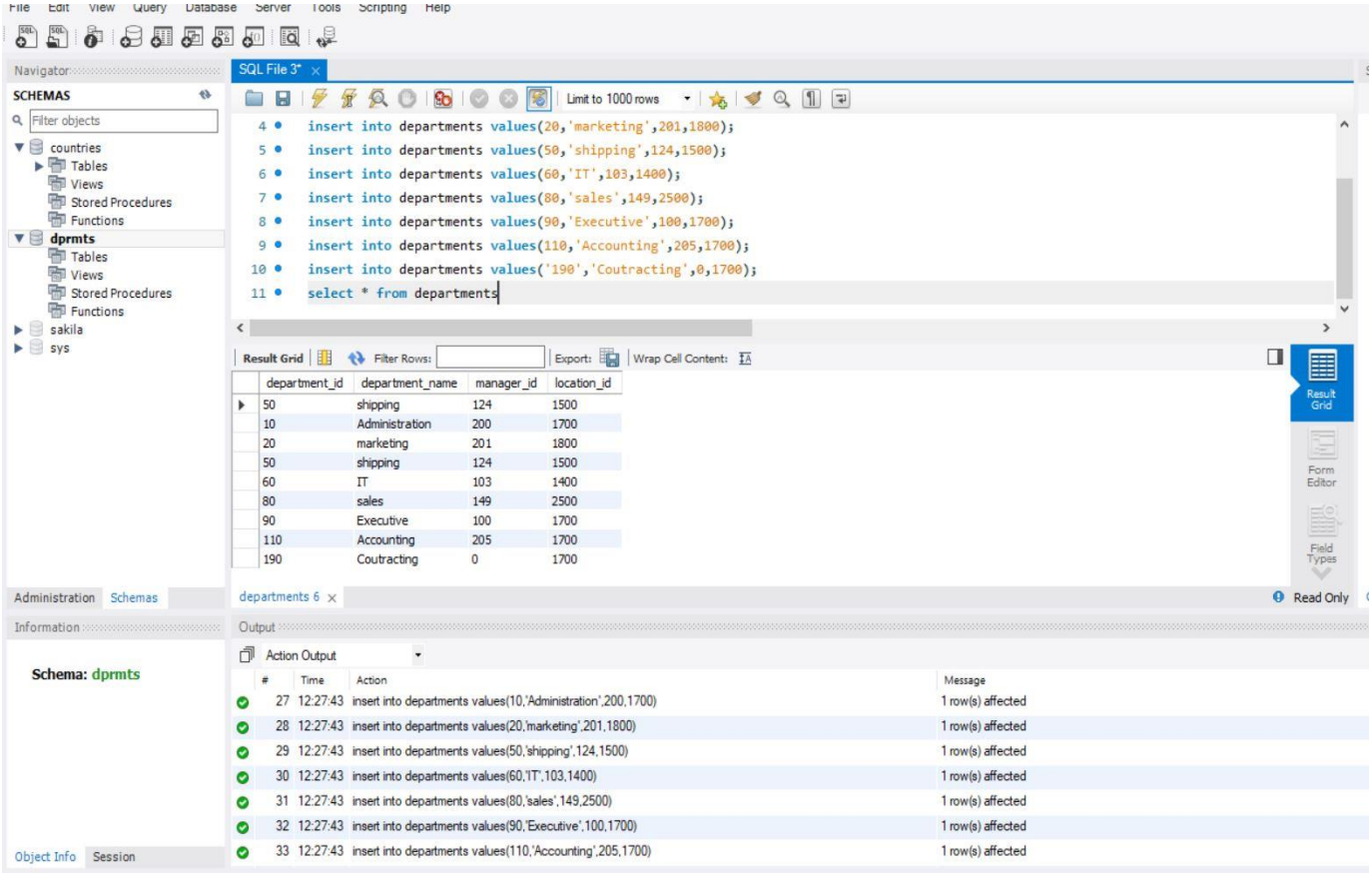
insert into departments values(80,'sales',149,2500);

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.

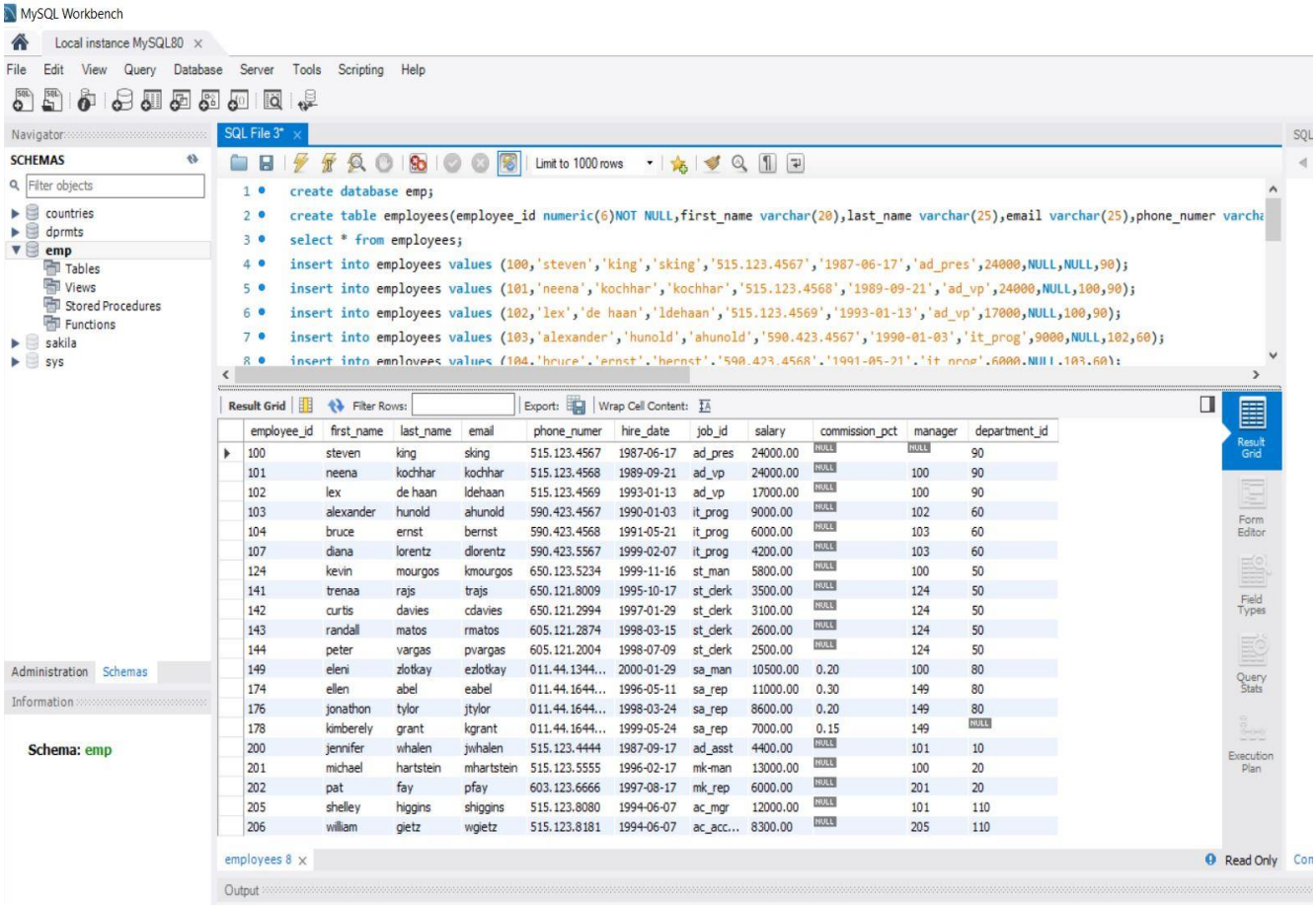
create table employees(employee_id numeric(6)NOT NULL,first_name varchar(20),last_name varchar(25),email varchar(25),phone_numer varchar(25),hire_date date,job_id varchar(10),salary numeric(8,2),commission_pct numeric(2,2),manager decimal(6),department_id decimal(4));

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);

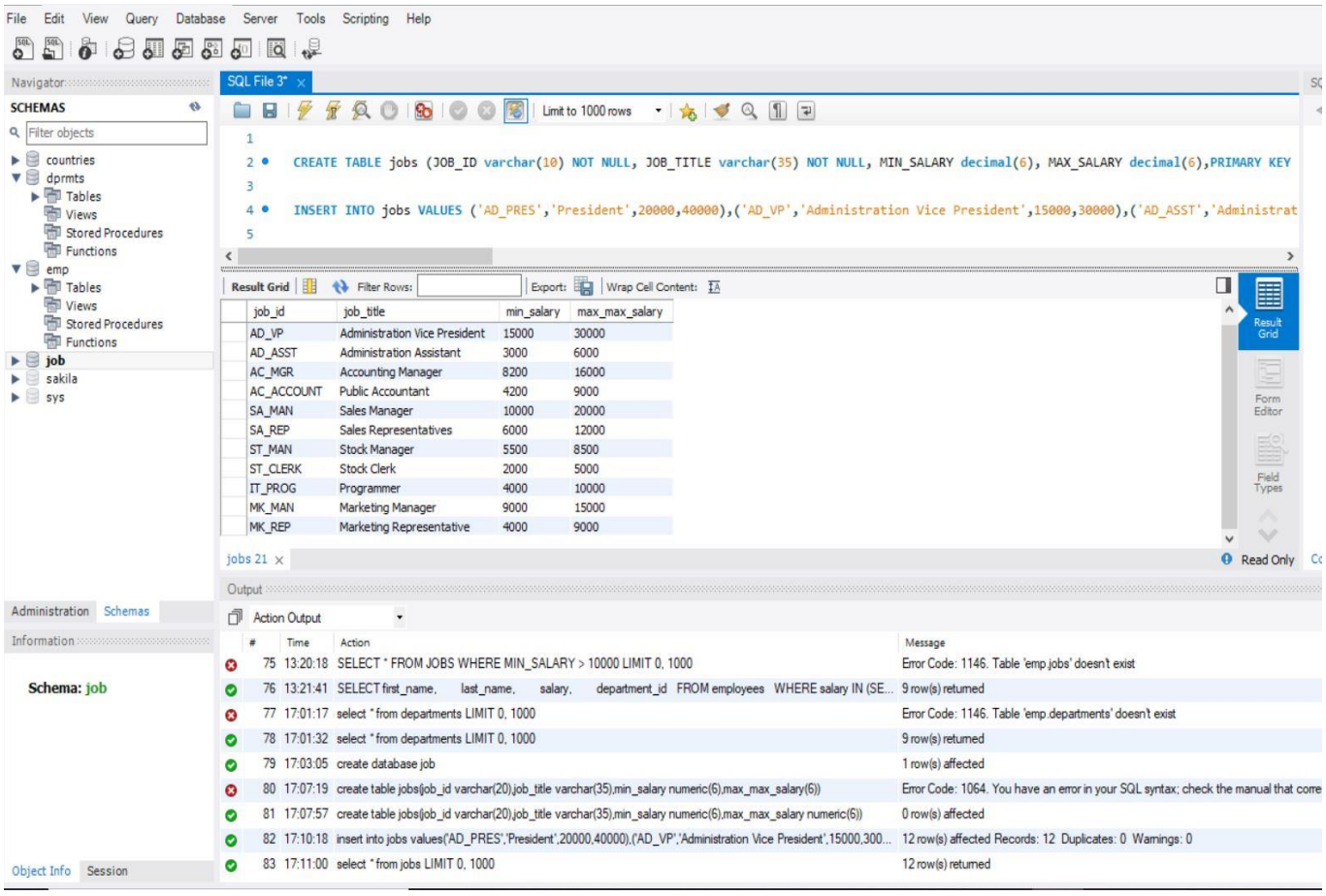
```
insert into employees values (103,'alexander','hunold','ahunold','590.423.4567','1990-01-
03','it_prog',9000,NULL,102,60);

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','mk-
man',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;
```


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
countries
dprmts
emp
Tables
Views
Stored Procedures
Functions
sakila
sys
Administration Schemas
Information
Schema: emp
SQL File 3*
Limit to 1000 rows
1 create database emp;
2 create table employees(employee_id numeric(6)NOT NULL,first_name varchar(20),last_name varchar(25),email varchar(25),phone_numer varcha
3 select * from employees;
4 insert into employees values (100,'steven','king','sking','515.123.4567','1987-06-17','ad_pres',24000,NULL,NULL,90);
5 insert into employees values (101,'neena','kochhar','kochhar','515.123.4568','1989-09-21','ad_vp',24000,NULL,100,90);
6 insert into employees values (102,'lex','de haan','ldehaan','515.123.4569','1993-01-13','ad_vp',17000,NULL,100,90);
7 insert into employees values (103,'alexander','hunold','ahunold','590.423.4567','1990-01-03','it_prog',9000,NULL,102,60);
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
employee_id first_name last_name email phone_numer hire_date job_id salary commission_pct manager department_id
100 steven king sking 515.123.4567 1987-06-17 ad_pres 24000.00 NULL NULL 90
101 neena kochhar kochhar 515.123.4568 1989-09-21 ad_vp 24000.00 NULL 100 90
102 lex de haan ldehaan 515.123.4569 1993-01-13 ad_vp 17000.00 NULL 100 90
103 alexander hunold ahunold 590.423.4567 1990-01-03 it_prog 9000.00 NULL 102 60
104 bruce ernst bernst 590.423.4568 1991-05-21 it_prog 6000.00 NULL 103 60
107 diana lorentz dlorentz 590.423.5567 1999-02-07 it_prog 4200.00 NULL 103 60
124 kevin mourgos kmourgos 650.123.5234 1999-11-16 st_man 5800.00 NULL 100 50
141 trenaa rajs trajs 650.121.8009 1995-10-17 st_clerk 3500.00 NULL 124 50
142 curtis davies cdavies 650.121.2994 1997-01-29 st_clerk 3100.00 NULL 124 50
143 randall matos rmatos 605.121.2874 1998-03-15 st_clerk 2600.00 NULL 124 50
144 peter vargas pvargas 605.121.2004 1998-07-09 st_clerk 2500.00 NULL 124 50
149 eleni zlotkay ezlotkay 011.44.1344... 2000-01-29 sa_man 10500.00 0.20 100 80
174 ellen abel eabel 011.44.1644... 1996-05-11 sa_rep 11000.00 0.30 149 80
176 jonathon tylor jtylor 011.44.1644... 1998-03-24 sa_rep 8600.00 0.20 149 80
178 kimberely grant kgrant 011.44.1644... 1999-05-24 sa_rep 7000.00 0.15 149 NULL
200 jennifer whalen jwhalen 515.123.4444 1987-09-17 ad_asst 4400.00 NULL 101 10
201 michael hartstein mhartstein 515.123.5555 1996-02-17 mk-man 13000.00 NULL 100 20
202 pat fay pfay 603.123.6666 1997-08-17 mk_rep 6000.00 NULL 201 20
205 shelley higgins shiggins 515.123.8080 1994-06-07 ac_mgr 12000.00 NULL 101 110
206 william gietz wgietz 515.123.8181 1994-06-07 ac_acc... 8300.00 NULL 205 110
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
employees 8
Read Only
Output

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);

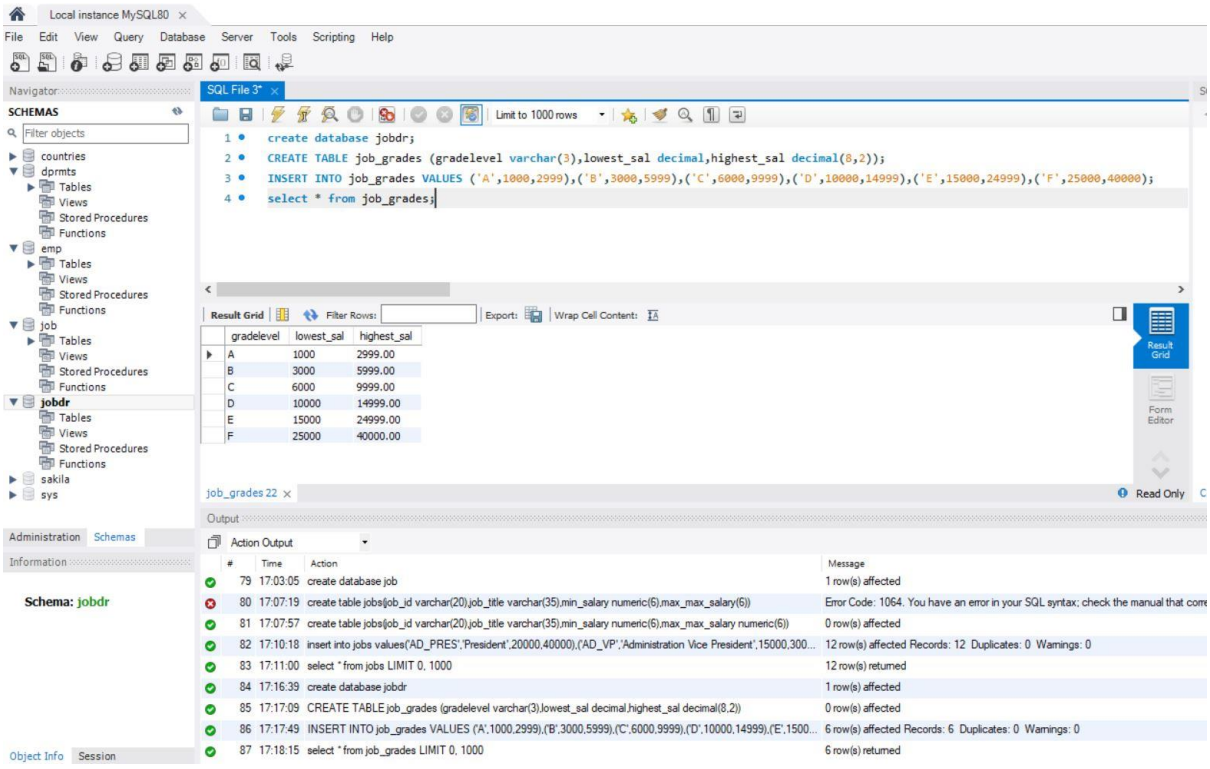
Select * from jobs



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);

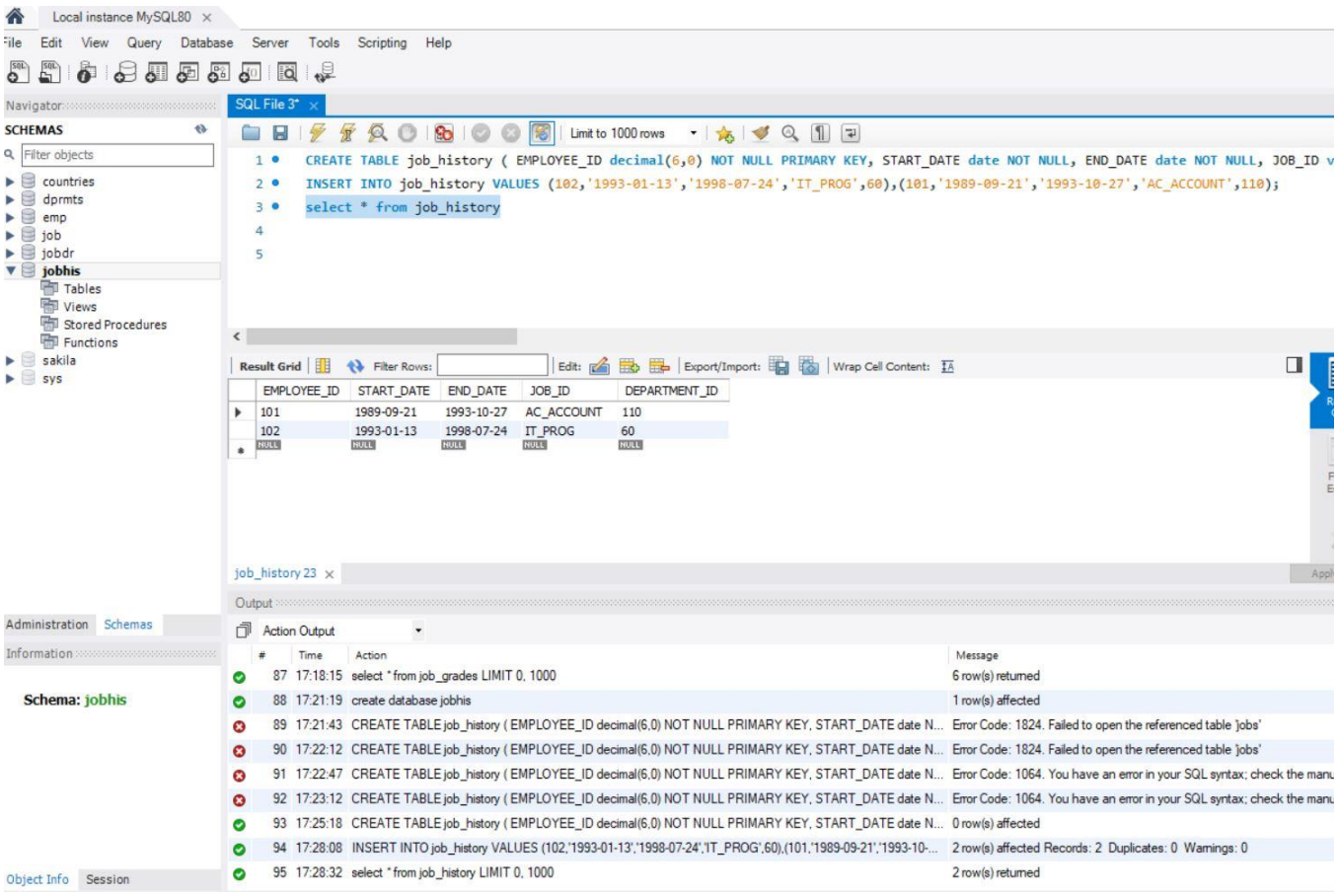
select * from job_grades;



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);

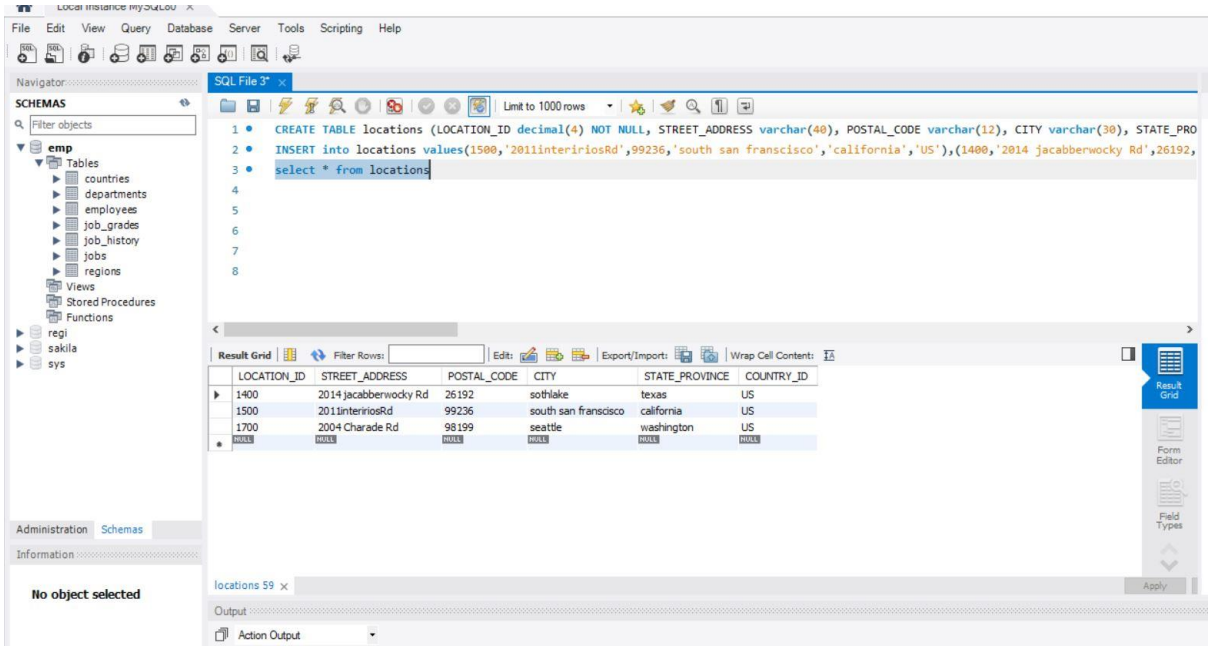
select * from job_history



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');

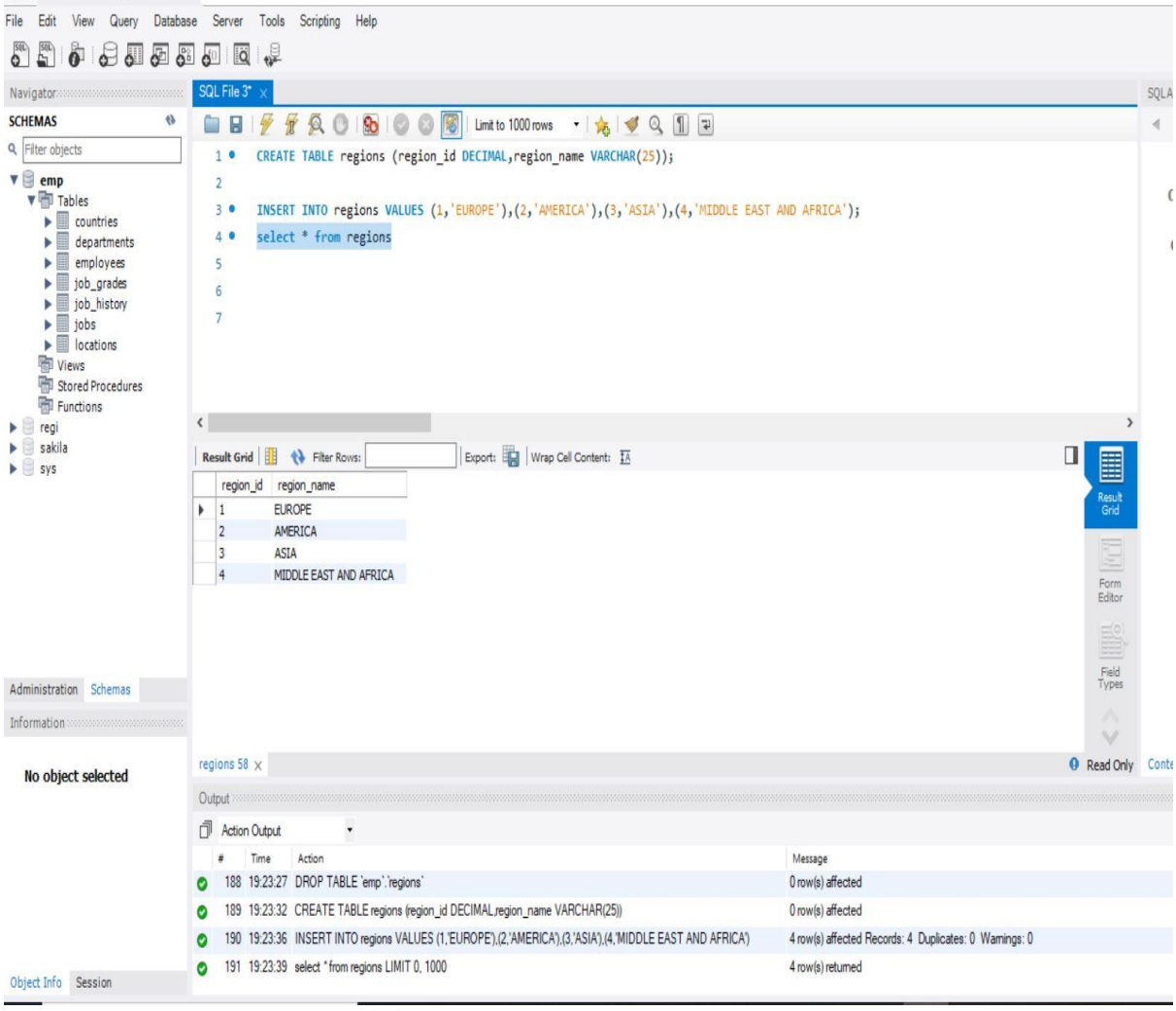
select * from locations



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

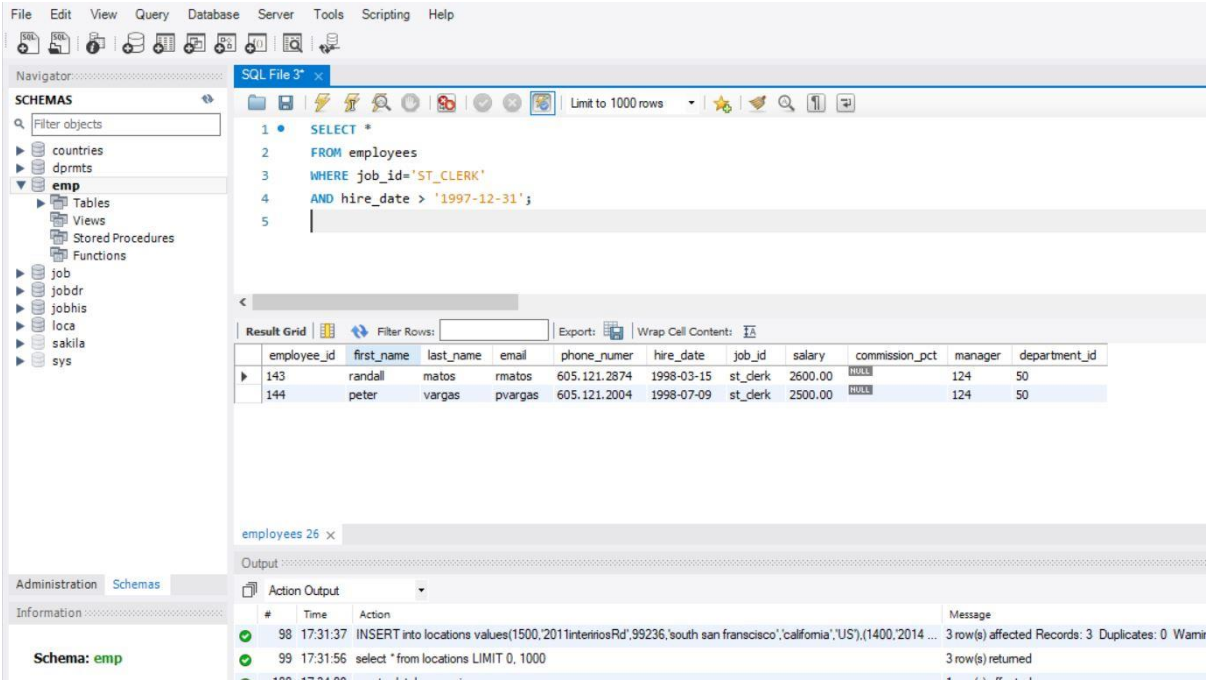


1.SELECT *

FROM employees

WHERE job_id = 'ST_CLREK'

AND hire_date > '1997-12-31';

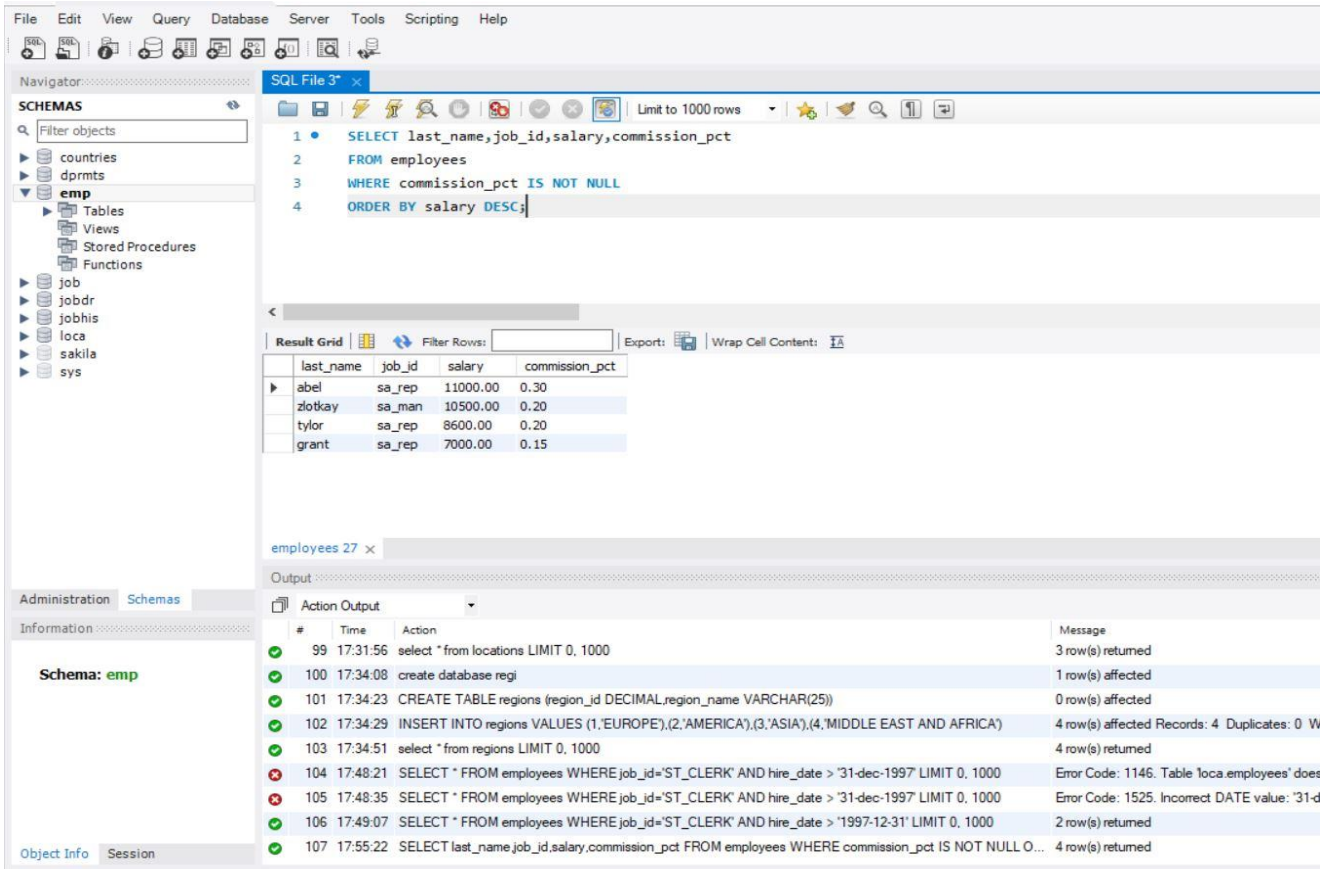


2. SELECT last_name,job_id,salary,commission_pct

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,

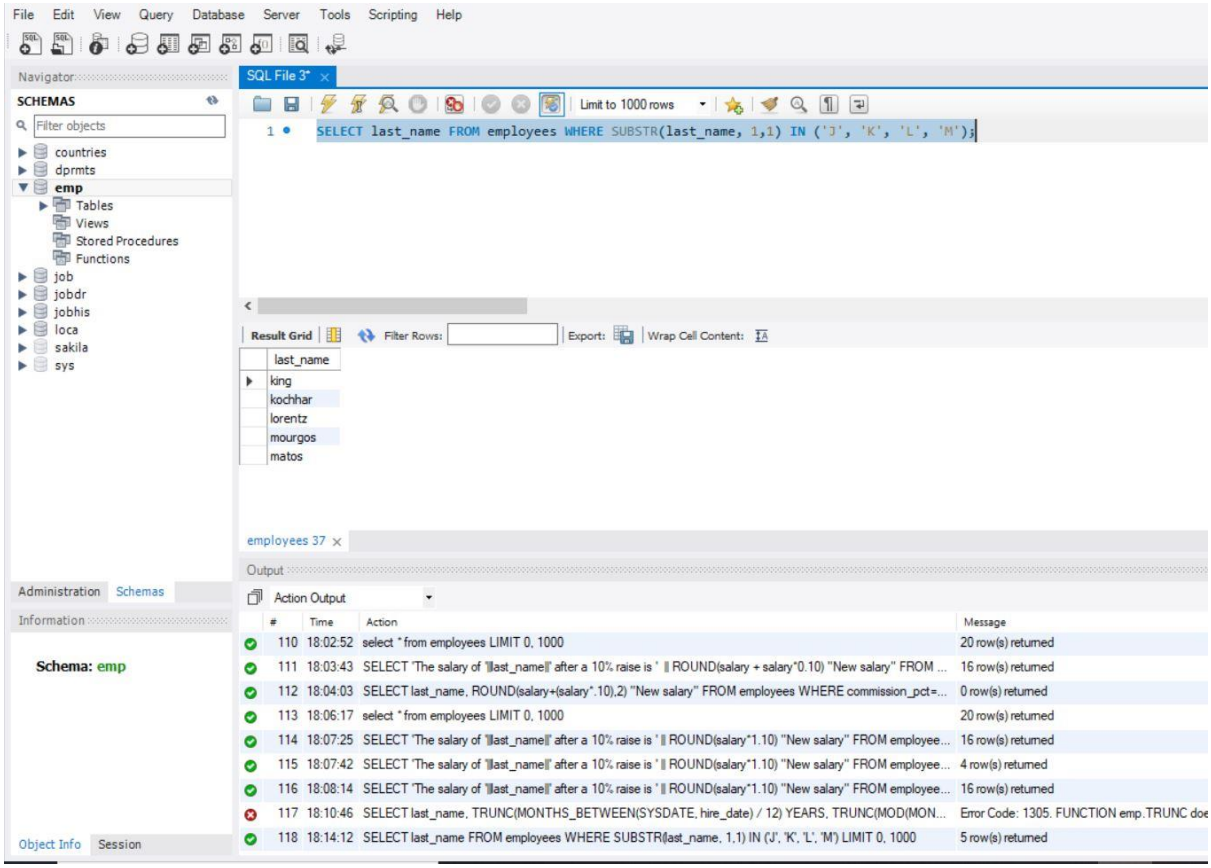
TRUNC(MOD(MONTHS_BETWEEN(SYSDATE, hire_date), 12))

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');



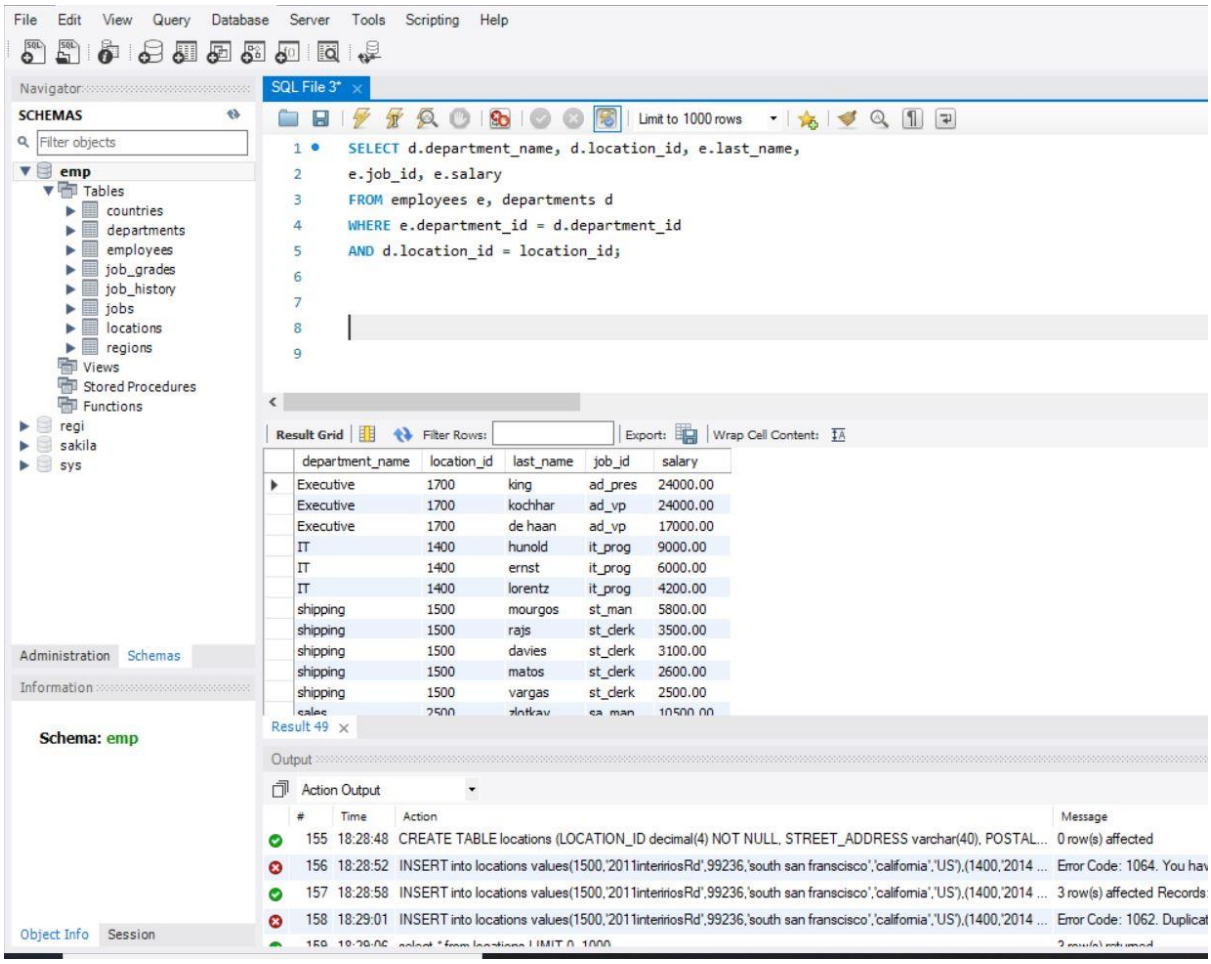
6. SELECT d.department_name, d.location_id, e.last_name,

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';