SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING, KADAYIRUPPU

20MCA134 ADVANCED DBMS LAB

LAB ASSIGNMENT -1

DATE:

****

Deadline: **Mark: 10**

Mode of submission :

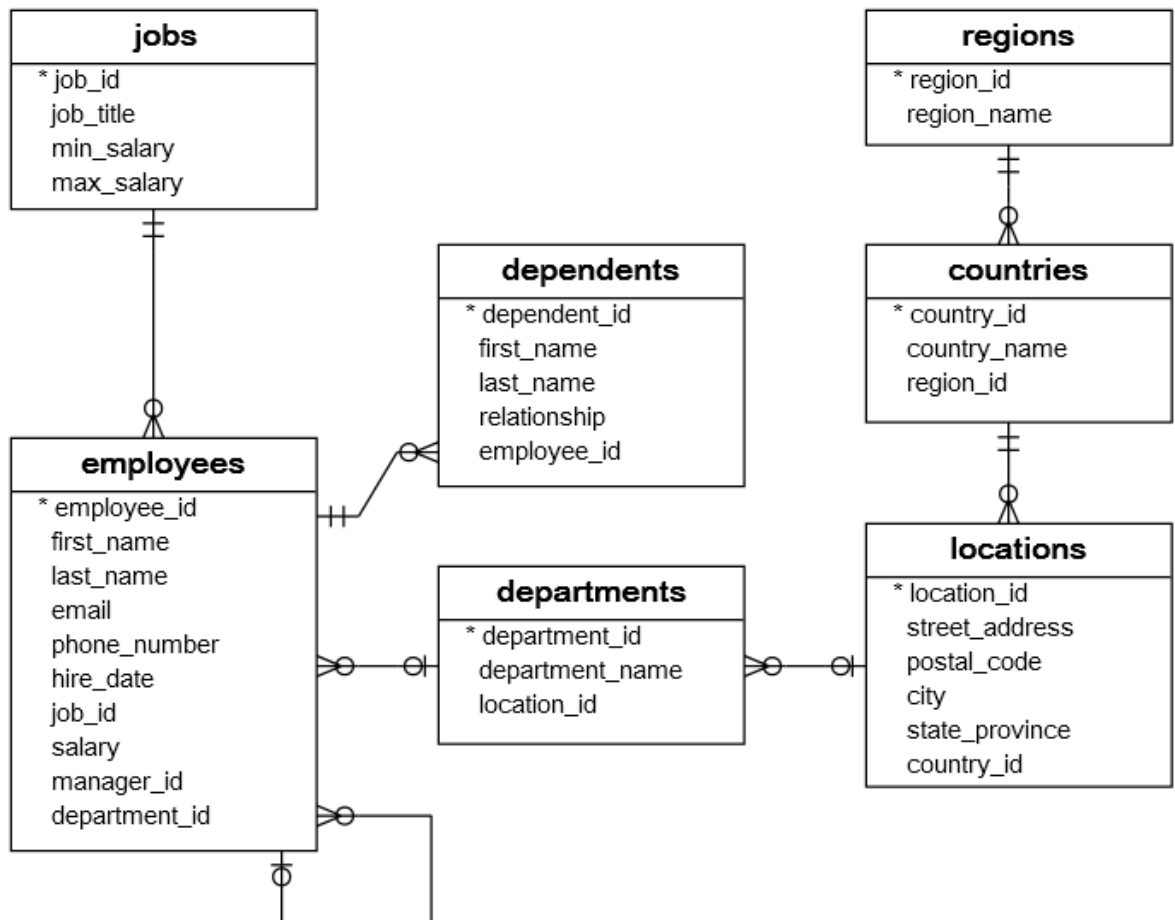1. **Submit the sql query in google class room.**

    File naming convention : "Lab#1 _Two digit rollno_your name .sql "

    Eg:-Lab#1_ 01_Anu.sql

2. **Create a repository in your github/gitlab account for ADBMS Lab and push the commits .**

****

The following database diagram describes a company database.

The company database has seven tables:

1. The employees table stores the data of employees.
2. The jobs table stores the job data including job title and salary range.
3. The departments table stores department data.
4. The dependents table stores the employee's dependents.
5. The locations table stores the location of the departments of the company.
6. The countries table stores the data of countries where the company is doing business.
7. The regions table stores the data of regions such as Asia, Europe, America, and the Middle East and Africa. The countries are grouped into regions.

I . WRITE QUERIES IN MYSQL TO DO THE FOLLOWING :

DDL COMMANDS

1. Design and create database which consists of above seven tables.
2. Rename Departments table to Dept.
3. Modify Column Salary from int to smallint
4. Add Commission column to the Employees table.

   ### DML COMMANDS

5. Enter followingqueries to insert values in Employees table.

   (Note :Check the columns in the table before you insert data and do appropriate modifications)

   /*Data for the table regions */

   INSERT INTO regions(region_id,region_name) VALUES (1,'Europe');

   INSERT INTO regions(region_id,region_name) VALUES (2,'Americas');

   INSERT INTO regions(region_id,region_name) VALUES (3,'Asia');

   INSERT INTO regions(region_id,region_name) VALUES (4,'Middle East and Africa');

   /*Data for the table countries */

   INSERT INTO countries(country_id,country_name,region_id) VALUES ('AR','Argentina',2);

   INSERT INTO countries(country_id,country_name,region_id) VALUES ('AU','Australia',3);

   INSERT INTO countries(country_id,country_name,region_id) VALUES ('BE','Belgium',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('BR','Brazil',2);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('CA','Canada',2);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('CH','Switzerland',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('CN','China',3);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('DE','Germany',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('DK','Denmark',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('EG','Egypt',4);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('FR','France',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('HK','HongKong',3);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('IL','Israel',4);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('IN','India',3);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('IT','Italy',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('JP','Japan',3);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('KW','Kuwait',4);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('MX','Mexico',2);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('NG','Nigeria',4);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('NL','Netherlands',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('SG','Singapore',3);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('UK','United Kingdom',1);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('US','United States of America',2);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('ZM','Zambia',4);

INSERT INTO countries(country_id,country_name,region_id) VALUES ('ZW','Zimbabwe',4);

/*Data for the table locations */

INSERT INTO locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (1400,'2014 Jabberwocky Rd','26192','Southlake','Texas','US');

INSERT INTO locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (1500,'2011 Interiors Blvd','99236','South San Francisco','California','US');

INSERT INTO
locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (1700,'2004 Charade Rd','98199','Seattle','Washington','US');

INSERT INTO
locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (1800,'147 Spadina Ave','M5V 2L7','Toronto','Ontario','CA');

INSERT INTO
locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (2400,'8204 Arthur St',NULL,'London',NULL,'UK');

INSERT INTO
locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (2500,'Magdalen Centre, The Oxford Science Park','OX9 9ZB','Oxford','Oxford','UK');

INSERT INTO
locations(location_id,street_address,postal_code,city,state_province,country_id) VALUES (2700,'Schwanthalerstr. 7031','80925','Munich','Bavaria','DE');

/*Data for the table jobs */

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (1,'Public Accountant',4200.00,9000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (2,'Accounting Manager',8200.00,16000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (3,'Administration Assistant',3000.00,6000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (4,'President',20000.00,40000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (5,'Administration Vice President',15000.00,30000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (6,'Accountant',4200.00,9000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (7,'Finance Manager',8200.00,16000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (8,'Human Resources Representative',4000.00,9000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (9,'Programmer',4000.00,10000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (10,'Marketing Manager',9000.00,15000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (11,'Marketing Representative',4000.00,9000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (12,'Public Relations Representative',4500.00,10500.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (13,'Purchasing Clerk',2500.00,5500.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (14,'Purchasing Manager',8000.00,15000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (15,'Sales Manager',10000.00,20000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (16,'Sales Representative',6000.00,12000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (17,'Shipping Clerk',2500.00,5500.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (18,'Stock Clerk',2000.00,5000.00);

INSERT INTO jobs(job_id,job_title,min_salary,max_salary) VALUES (19,'Stock Manager',5500.00,8500.00);

/*Data for the table departments */

INSERT INTO departments(department_id,department_name,location_id) VALUES (1,'Administration',1700);

INSERT INTO departments(department_id,department_name,location_id) VALUES (2,'Marketing',1800);

INSERT INTO departments(department_id,department_name,location_id) VALUES (3,'Purchasing',1700);

INSERT INTO departments(department_id,department_name,location_id) VALUES (4,'Human Resources',2400);

INSERT INTO departments(department_id,department_name,location_id) VALUES (5,'Shipping',1500);

INSERT INTO departments(department_id,department_name,location_id) VALUES (6,'IT',1400);

INSERT INTO departments(department_id,department_name,location_id) VALUES (7,'Public Relations',2700);

INSERT INTO departments(department_id,department_name,location_id) VALUES (8,'Sales',2500);

INSERT INTO departments(department_id,department_name,location_id) VALUES (9,'Executive',1700);

INSERT INTO departments(department_id,department_name,location_id) VALUES (10,'Finance',1700);

INSERT INTO departments(department_id,department_name,location_id) VALUES (11,'Accounting',1700);

/*Data for the table employees */

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (100,'Steven','King','steven.king@sqltutorial.org','515.123.4567','1987-06-17',4,24000.00,NULL,9);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (101,'Neena','Kochhar','neena.kochhar@sqltutorial.org','515.123.4568','1989-09-21',5,17000.00,100,9);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (102,'Lex','De Haan','lex.de haan@sqltutorial.org','515.123.4569','1993-01-13',5,17000.00,100,9);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES

(103,'Alexander','Hunold','alexander.hunold@sqltutorial.org','590.423.4567','1990-01-03',9,9000.00,102,6);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (104,'Bruce','Ernst','bruce.ernst@sqltutorial.org','590.423.4568','1991-05-21',9,6000.00,103,6);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (105,'David','Austin','david.austin@sqltutorial.org','590.423.4569','1997-06-25',9,4800.00,103,6);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (106,'Valli','Pataballa','valli.pataballa@sqltutorial.org','590.423.4560','1998-02-05',9,4800.00,103,6);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (107,'Diana','Lorentz','diana.lorentz@sqltutorial.org','590.423.5567','1999-02-07',9,4200.00,103,6);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (108,'Nancy','Greenberg','nancy.greenberg@sqltutorial.org','515.124.4569','1994-08-17',7,12000.00,101,10);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_da

te,job_id,salary,manager_id,department_id) VALUES (109,'Daniel','Faviet','daniel.faviet@sqltutorial.org','515.124.4169','1994-08-16',6,9000.00,108,10);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (110,'John','Chen','john.chen@sqltutorial.org','515.124.4269','1997-09-28',6,8200.00,108,10);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (111,'Ismael','Sciarra','ismael.sciarra@sqltutorial.org','515.124.4369','1997-09-30',6,7700.00,108,10);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (112,'Jose Manuel','Urman','jose manuel.urman@sqltutorial.org','515.124.4469','1998-03-07',6,7800.00,108,10);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (113,'Luis','Popp','luis.popp@sqltutorial.org','515.124.4567','1999-12-07',6,6900.00,108,10);

INSERT INTO employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES (114,'Den','Raphaely','den.raphaely@sqltutorial.org','515.127.4561','1994-12-07',14,11000.00,100,3);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(115,'Alexander','Khoo','alexander.khoo@sqltutorial.org','515.127.4562','1995-05-18',13,3100.00,114,3);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(116,'Shelli','Baida','shelli.baida@sqltutorial.org','515.127.4563','1997-12-24',13,2900.00,114,3);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(117,'Sigal','Tobias','sigal.tobias@sqltutorial.org','515.127.4564','1997-07-24',13,2800.00,114,3);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(118,'Guy','Himuro','guy.himuro@sqltutorial.org','515.127.4565','1998-11-15',13,2600.00,114,3);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(119,'Karen','Colmenares','karen.colmenares@sqltutorial.org','515.127.4566','1999-08-10',13,2500.00,114,3);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(120,'Matthew','Weiss','matthew.weiss@sqltutorial.org','650.123.1234','1996-07-18',19,8000.00,100,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(121,'Adam','Fripp','adam.fripp@sqltutorial.org','650.123.2234','1997-04-
10',19,8200.00,100,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(122,'Payam','Kaufling','payam.kaufling@sqltutorial.org','650.123.3234','1995
-05-01',19,7900.00,100,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(123,'Shanta','Vollman','shanta.vollman@sqltutorial.org','650.123.4234','199
7-10-10',19,6500.00,100,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(126,'Irene','Mikkilineni','irene.mikkilineni@sqltutorial.org','650.124.1224','1
998-09-28',18,2700.00,120,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(145,'John','Russell','john.russell@sqltutorial.org',NULL,'1996-10-
01',15,14000.00,100,8);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(146,'Karen','Partners','karen.partners@sqltutorial.org',NULL,'1997-01-
05',15,13500.00,100,8);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(176,'Jonathon','Taylor','jonathon.taylor@sqltutorial.org',NULL,'1998-03-24',16,8600.00,100,8);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(177,'Jack','Livingston','jack.livingston@sqltutorial.org',NULL,'1998-04-23',16,8400.00,100,8);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(178,'Kimberely','Grant','kimberely.grant@sqltutorial.org',NULL,'1999-05-24',16,7000.00,100,8);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(179,'Charles','Johnson','charles.johnson@sqltutorial.org',NULL,'2000-01-04',16,6200.00,100,8);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(192,'Sarah','Bell','sarah.bell@sqltutorial.org','650.501.1876','1996-02-04',17,4000.00,123,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(193,'Britney','Everett','britney.everett@sqltutorial.org','650.501.2876','1997-03-03',17,3900.00,123,5);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(200,'Jennifer','Whalen','jennifer.whalen@sqltutorial.org','515.123.4444','198
7-09-17',3,4400.00,101,1);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(201,'Michael','Hartstein','michael.hartstein@sqltutorial.org','515.123.5555','
1996-02-17',10,13000.00,100,2);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(202,'Pat','Fay','pat.fay@sqltutorial.org','603.123.6666','1997-08-
17',11,6000.00,201,2);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(203,'Susan','Mavris','susan.mavris@sqltutorial.org','515.123.7777','1994-06-
07',8,6500.00,101,4);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(204,'Hermann','Baer','hermann.baer@sqltutorial.org','515.123.8888','1994-
06-07',12,10000.00,101,7);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_da
te,job_id,salary,manager_id,department_id) VALUES
(205,'Shelley','Higgins','shelley.higgins@sqltutorial.org','515.123.8080','1994-
06-07',2,12000.00,101,11);

INSERT INTO
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id) VALUES
(206,'William','Gietz','william.gietz@sqltutorial.org','515.123.8181','1994-06-07',1,8300.00,205,11);

/*Data for the table dependents */

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (1,'Penelope','Gietz','Child',206);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (2,'Nick','Higgins','Child',205);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (3,'Ed','Whalen','Child',200);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (4,'Jennifer','King','Child',100);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (5,'Johnny','Kochhar','Child',101);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (6,'Bette','De Haan','Child',102);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (7,'Grace','Faviet','Child',109);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (8,'Matthew','Chen','Child',110);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (9,'Joe','Sciarra','Child',111);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (10,'Christian','Urman','Child',112);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (11,'Zero','Popp','Child',113);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (12,'Karl','Greenberg','Child',108);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (13,'Uma','Mavris','Child',203);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (14,'Vivien','Hunold','Child',103);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (15,'Cuba','Ernst','Child',104);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (16,'Fred','Austin','Child',105);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (17,'Helen','Pataballa','Child',106);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (18,'Dan','Lorentz','Child',107);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (19,'Bob','Hartstein','Child',201);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (20,'Lucille','Fay','Child',202);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (21,'Kirsten','Baer','Child',204);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (22,'Elvis','Khoo','Child',115);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (23,'Sandra','Baida','Child',116);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (24,'Cameron','Tobias','Child',117);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (25,'Kevin','Himuro','Child',118);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (26,'Rip','Colmenares','Child',119);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (27,'Julia','Raphaely','Child',114);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (28,'Woody','Russell','Child',145);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (29,'Alec','Partners','Child',146);

INSERT INTO
dependents(dependent_id,first_name,last_name,relationship,employee_id)
VALUES (30,'Sandra','Taylor','Child',176);O REGIONS VALUES (4,'Middle East
and Africa');