EXERCISES

Exercise 1:

#Create table employee with the following constraints;

CREATE TABLE employee(emp_id, emp_name ,emp_dept emp_age, place, income);

Set emp_id as the primary key with auto increment starting from 2505.

 # insert records into the table

Load "***employee.csv***"(from tables folder) data into employee table

Questionnaire set:

1. Calculate the total number of employees name available in the table
2. Display the maximum salary of each department and also all departments put together
3. Find the employees whose salary is between 100000 and 500000 but not exactly 120000.
4. Get the count of employees whose income is more than 1 lakh.
5. List the employees according to ascending order of salary
6. For each department, retrieve the department name, the number of employees in the department, and Maximum income for the department.
7. List the number of employees in each place.
8. List the number of customers in each country sorted high to low
9. List the number of customers in each place. (Only include places with more than 1 employee)
10. List the number of employees in each place, except the California, sorted high to low. Only include places with 2 or more employees

Exercise2:

Tables for Exercise2

1. Create table customer (customer_name char(20),customer_street char(30),customer_city char(30),PRIMARY KEY(customer_name));
2. Create table branch (branch_name char(15),branch_city char(30),assets numeric(16,2),PRIMARY KEY(branch_name));
3. Create table account (account_number char(15),branch_name char (15),balance numeric(12,2),PRIMARY KEY(account_number),FOREIGN KEY (branch_name) REFERENCES branch(branch_name));
4. Create table depositor(customer_name char(20),account_number char(10),PRIMARY KEY(customer_name,account_number),FOREIGN KEY (customer_name) REFERENCES customer(customer_name),FOREIGN KEY (account_number) REFERENCES account(account_number));
5. Create table loan(loan_number varchar(6),branch_name char(15),amount int,PRIMARY KEY(loan_number),FOREIGN KEY (branch_name) REFERENCES branch(branch_name));

6. Create table borrower(customer_name char(20),loan_number varchar(6),PRIMARY KEY(customer_name,loan_number),FOREIGN KEY (customer_name) REFERENCES customer(customer_name),FOREIGN KEY (loan_number) REFERENCES loan(loan_number));

Questionnaire set:

1. Create the tables for above schema and load data from the respective .csv files
2. For all customers who have loan from the bank,find their names,loan numbers and loan amount(with and without renaming tables)
3. Find the customer names,loan numbers and loan amounts for all loans at perryridge branch.
4. Find the names of all branches that have assets greater than at least one branch located at Brooklyn.
5. List in alphabetical order all customers who have loans at the perryridge branch.
6. Print the entire Loan relation in descending order of amount.If several loans have the same amount,order them in ascending order by loan number.
7. Find the average balance for all accounts.
8. Find no.of tuples in customer relation.
9. Find the total of all loan amounts.
10. Find the average account balance at the Perryridge branch.
11. Find the average account balance at each branch.
12. Find the average account balance at each branch ,where the account balance is more than 1200.
13. Find the number of depositors for each branch.
14. Find the average balance for each customer who lives in ‘’Harrison” and has at least 3 acccounts