Q1

create table Colors  (ID integer(10), C1 varchar (10),C2 varchar (10),C3 varchar (10));

insert into Colors (ID, C1, C2, C3) values (1,'Red', 'Yellow', 'Blue');

insert into Colors (ID, C1, C2, C3) values (2, NULL, 'Red', 'Green');

insert into Colors (ID, C1, C2, C3) values (3,'Yellow', NULL, 'Violet');

Q2

create table Employee  (salary integer(10));

insert into Employee (salary) values (10000);

insert into Employee (salary) values (20000);

insert into Employee (salary) values (25000);

insert into Employee (salary) values (30000);

insert into Employee (salary) values (40000);

insert into Employee (salary) values (50000);

insert into Employee (salary) values (22000);

insert into Employee (salary) values (50000);

insert into Employee (salary) values (70000);

insert into Employee (salary) values (76000);

insert into Employee (salary) values (77000);

insert into Employee (salary) values (11000);

Q3

create table NoAlpha (data varchar(10));

insert into NoAlpha (data) values ('d');

insert into NoAlpha (data) values ('x');

insert into NoAlpha (data) values ('T');

insert into NoAlpha (data) values (4);

insert into NoAlpha (data) values (5);

Q4

create table test\_a(id numeric);

insert into test\_a (id) values (10);

insert into test\_a (id) values (20);

insert into test\_a (id) values (30);

insert into test\_a (id) values (40);

insert into test\_a (id) values (50);

create table test\_b(id numeric);

insert into test\_b (id) values (10);

insert into test\_b (id) values (30);

insert into test\_b (id) values (50);

Q5

create table mass\_table (weight float);

insert into mass\_table (weight) values (5.67);

insert into mass\_table (weight) values (34.567);

insert into mass\_table (weight) values (365.253);

insert into mass\_table (weight) values (34);

Q6

create table Employee (Emp\_Id integer, Emp\_name varchar(100), Salary float,Manager\_Id varchar(100));

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (10, 'Anil', 50000, 18);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (11,'Vikas',75000,16);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (12,'Nisha',40000,18);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (13,'Nidhi',60000,17);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (14,'Priya',80000,18);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (15, 'Mohit',45000,18);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (17,'Raman',55000,16);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (18,'Santosh',65000,17);

insert into Employee (Emp\_Id, Emp\_name, Salary,Manager\_Id) values (16,'Rajesh',90000,'-');

Q7

create table A (X integer);

insert into A (X) values (2);

insert into A (X) values (-2);

insert into A (X) values (4);

insert into A (X) values (-4);

insert into A (X) values (-3);

insert into A (X) values (0);

insert into A (X) values (2);

Q8

create table users (user\_id integer, username varchar(100));

insert into users (user\_id, username) values (1, 'John Doe');

insert into users (user\_id, username) values (2, 'Jane Don');

insert into users (user\_id, username) values (3, 'Alice Jones');

insert into users (user\_id, username) values (4, 'Lisa Romero');

create table training\_details (user\_training\_id integer, user\_id integer,training\_id integer, training\_date varchar(100));

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (1,1,1, '2015-08-02');

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (2,2,1,"2015-08-03");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (3,3,2,"2015-08-02");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (4,4,2,"2015-08-04");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (5,2,2,"2015-08-03");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (6,1,1,"2015-08-02");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (7,3,2,"2015-08-04");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (8,4,3,"2015-08-03");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (9,1,4,"2015-08-03");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (10,3,1,"2015-08-02");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (11,4,2,"2015-08-04");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (12,3,2,"2015-08-02");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (13,1,1,"2015-08-02");

insert into training\_details (user\_training\_id, user\_id, training\_id, training\_date) values (14,4,3,"2015-08-03");

Q9

CREATE TABLE EmployeeSalaries (employee\_ID varchar(20), salary int, year int);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (1,80000,2020);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (1,70000,2020);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (1, 60000, 2018);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (2, 65000, 2020);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (2, 65000, 2019);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (2, 60000, 2018);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (3, 65000, 2019);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (3, 60000, 2018);

INSERT INTO EmployeeSalaries (employee\_ID, salary, year) VALUES (3, 70000, 2018);

Q10

CREATE TABLE keyword\_summary

    (keyword varchar(20), ad\_id int, advertiser\_id int, total\_spend float)

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '1243213', '1234', '94.7');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '1243213', '1234', '70.91');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike tires', '1243213', '1234', '22.45');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike breaks', '1243213', '1234', '95.06');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike accessories', '1243213', '1234', '28.1');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '1839201', '3829', '23.11');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '1839201', '3829', '28.7');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike tires', '1839201', '3829', '63.37');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike breaks', '3829372', '3829', '38.04');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike accessories', '3829372', '3829', '69.57');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('mountain bike', '3829372', '3829', '59.17');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '8309283', '1253', '1.92');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '2917382', '4729', '79.11');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '9348201', '20384', '48.27');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '482729', '74093', '43.79');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bicycle', '2028372', '19372', '68.86');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '2716392', '458931', '71.33');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '290182', '31712', '17.57');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '38271', '21781', '91.5');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '4723982', '233', '88.87');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '37126189', '433221', '34.65');

INSERT INTO keyword\_summary (keyword, ad\_id, advertiser\_id, total\_spend) VALUES ('bike', '37472', '7645634', '46.35')