# create database

create database demo1;

# use database

use demo1;

# create table

create table employee\_info(ename varchar(20), e\_id int, location varchar(10), age int );

# Verify table columns

desc employee\_info;

#CREATE DATABASE

create database QADB;

#DROP DATABASE

drop database QADB;

# insert values into table

insert into employee\_info values('John',235,'Paris',31);

select ename, e\_id, location,age from employee\_info;

insert into employee\_info values('Sam',741,'New Jersey',45,'male');

insert into employee\_info values('Peter',874,'Florida',41);

insert into employee\_info values('Ray',741,'Texax',36);

insert into employee\_info values('Mark',651,'Paris',29);

insert into employee\_info values('Henry',745,'Chicago',30);

select \* from employee\_info;

select age,ename from employee\_info;

desc employee\_info;

# adding column

alter table employee\_info add gender varchar(10);

#Modify column

alter table employee\_info modify gender varchar(15);

#Drop column

alter table employee\_info drop gender ;

# insert values into column

update employee\_info set gender='male';

# insert values into column to specific employee

update employee\_info set gender='female' where ename='Sam';

# to unique column values

select distinct ename from employee\_info;

select distinct location from employee\_info;

select \* from employee\_info where gender='female';

select \* from employee\_info where ename='John';

select \* from employee\_info where location='Florida';

select \* from employee\_info where location='Chicago' and age>30;

# and condition will filter both matching conditions

select \* from employee\_info where age>35 and gender='male';

#or condition will filter matching any one of the condition

select \* from employee\_info where location='Chicago' or age>40;

#in operator

select \* from employee\_info where e\_id in(235,651,741);

select \* from employee\_info where location in('Paris','Florida','Chicago');

#between operator

select \* from employee\_info where e\_id between 300 and 600;

select \* from employee\_info where age between 35 and 40;

use world;

#use regular expression % and \_

select \* from city;

#print city names starting with A

select \* from city where name like 'A%';

#print country code whose third letter is T

select CountryCode from city where CountryCode like '\_\_T%';

#Print COUNTRY CODE WHOSE SECOND LETTER IS ‘A’

select CountryCode from city where CountryCode like '\_A%';

# print Names whose second letter is m and fourth letter is a

select name from city where name like '\_m\_a%';

use demo1;

CREATE TABLE TRANSACTIONS (MONTH VARCHAR(10),

DAY INT, AMOUNT INT,BRANCH VARCHAR(20));

INSERT INTO TRANSACTIONS VALUES('FEB',13,124,'BANGALORE');

INSERT INTO TRANSACTIONS VALUES('FEB',17,20400,'CHICAGO');

INSERT INTO TRANSACTIONS VALUES('FEB',212,320,'SYDNEY');

INSERT INTO TRANSACTIONS VALUES('MAR',22,9600,'BANGALORE');

INSERT INTO TRANSACTIONS VALUES('MAR',16,5200,'CHICAGO');

INSERT INTO TRANSACTIONS VALUES('APR',12,23,'SYDNEY');

INSERT INTO TRANSACTIONS VALUES('JAN',13,666,'BANGALORE');

INSERT INTO TRANSACTIONS VALUES('MAY',2,3111,'SYDNEY');

INSERT INTO TRANSACTIONS VALUES('MAY',1,99999,'PARIS');

INSERT INTO TRANSACTIONS VALUES('JAN',12,2000,'PARIS');

SELECT \* FROM TRANSACTIONS;

#GROUP BY

#GET TOTAL SUM OF AMOUNT GENERATE FOR EACH MONTH

SELECT \*,SUM(AMOUNT) FROM TRANSACTIONS GROUP BY MONTH;

SELECT \*,SUM(AMOUNT) FROM TRANSACTIONS GROUP BY BRANCH;

#GET MAXIMUM AMOUNT GENERATE FOR EACH MONTH

SELECT \*,MAX(AMOUNT) FROM TRANSACTIONS GROUP BY MONTH;

#GET MINIMUM AMOUNT GENERATE FOR EACH MONTH

SELECT \*,MIN(AMOUNT) FROM TRANSACTIONS GROUP BY MONTH;

#NO OF TRANSACTIONS OCCURED FOR EACH MONTH

SELECT \*, COUNT(\*) FROM TRANSACTIONS GROUP BY MONTH;

#GET THE TRANSACTIONS WHICH OCCURED LESS THAN 2 FOR ANY MONTH

#GET TOTAL SUM OF AMOUNT GENERATED FOR EACH MONTH ONLY IN BANGALORE & SYDNEY

SELECT \*,SUM(AMOUNT) FROM TRANSACTIONS GROUP BY MONTH HAVING BRANCH='BANGALORE' OR BRANCH='SYDNEY';

#SUB QUERY

CREATE TABLE CITIZENLOC(NAME VARCHAR(20), LOCATION VARCHAR(20));

CREATE TABLE CITIZENS(NAME VARCHAR(20),AGE INT, EXP INT);

INSERT INTO CITIZENLOC VALUES('RAHUL','CALIFORNIA');

INSERT INTO CITIZENLOC VALUES('GEORGE','CALIFORNIA');

INSERT INTO CITIZENLOC VALUES('FLEX','TEXAS');

INSERT INTO CITIZENLOC VALUES('STEVE','CALIFORNIA');

INSERT INTO CITIZENLOC VALUES('HUSSAIN','CHICAGO');

INSERT INTO CITIZENS VALUES('RAHUL',34,6);

INSERT INTO CITIZENS VALUES('SUBASH',34,6);

INSERT INTO CITIZENS VALUES('GEORGE',41,10);

INSERT INTO CITIZENS VALUES('FLEX',23,15);

INSERT INTO CITIZENS VALUES('HUSSAIN',10,0);

INSERT INTO CITIZENS VALUES('STEVE',24,7);

SELECT \* FROM CITIZENS;

# GET ME THE DETAILS OF PERSON RESIDING IN TEXAS

SELECT \* FROM CITIZENLOC WHERE LOCATION='TEXAS';

SELECT \* FROM CITIZENS

WHERE NAME =(SELECT NAME FROM CITIZENLOC WHERE LOCATION='TEXAS');

# GET ME THE LOCATION OF PERSON WHO IS HAVING MORE THAN 6 YEARS OF EXPERIENCE

SELECT NAME, LOCATION FROM CITIZENLOC

WHERE NAME IN(SELECT NAME FROM CITIZENS WHERE EXP>6);

#JOINS

CREATE TABLE COMPANY(NAME VARCHAR(20),BRANCH VARCHAR(20),EMPLOYEES INT);

CREATE TABLE ESTABLISHED(NAME VARCHAR(20), YEAR INT);

INSERT INTO ESTABLISHED VALUES('MICROSOFT',2010);

INSERT INTO ESTABLISHED VALUES('GOOGLE',1990);

INSERT INTO ESTABLISHED VALUES('YAHOO',1992);

INSERT INTO ESTABLISHED VALUES('FACEBOOK',1992);

INSERT INTO COMPANY VALUES('MICROSOFT','US',20);

INSERT INTO COMPANY VALUES('GOOGLE','US',500);

INSERT INTO COMPANY VALUES('YAHOO','CANADA',250);

INSERT INTO COMPANY VALUES('GOOGLE','INDIA',400);

INSERT INTO COMPANY VALUES('MICROSOFT','INDIA',75);

INSERT INTO COMPANY VALUES('MICROSOFT','UK',10);

INSERT INTO COMPANY VALUES('MICROSOFT','CANADA',30);

INSERT INTO COMPANY VALUES('YAHOO','US',200);

INSERT INTO COMPANY VALUES('YAHOO','INDIA',150);

INSERT INTO COMPANY VALUES('FACEBOOK','US',50);

SELECT \* FROM COMPANY;

SELECT \* FROM ESTABLISHED;

#JOIN QUERY

SELECT E.NAME, E.YEAR, C.BRANCH,C.EMPLOYEES

FROM COMPANY AS C JOIN ESTABLISHED E

ON E.NAME=C.NAME;

use demo1;

CREATE TABLE STUDENT\_DETAILS(NAME VARCHAR(20),ID INT,

AGE INT,GENDER VARCHAR(20),LOCATION VARCHAR(20));

CREATE TABLE GRADES(GRADE VARCHAR(10),ID INT);

INSERT INTO STUDENT\_DETAILS VALUES('SAI',1,12,'FEMALE','SPAIN');

INSERT INTO STUDENT\_DETAILS VALUES('BABA',2,15,'MALE','NEWYORK');

INSERT INTO STUDENT\_DETAILS VALUES('RAM',3,15,'MALE','SPAIN');

INSERT INTO STUDENT\_DETAILS VALUES('RAGHU',4,15,'FEMALE','NEWYORK');

INSERT INTO STUDENT\_DETAILS VALUES('AJAY',5,12,'MALE','NIJERIA');

INSERT INTO STUDENT\_DETAILS VALUES('MATHURA',6,12,'MALE','SPAIN');

SELECT \* FROM STUDENT\_DETAILS;

INSERT INTO GRADES VALUES ('A',2);

INSERT INTO GRADES VALUES ('B',3);

INSERT INTO GRADES VALUES ('A',4);

INSERT INTO GRADES VALUES ('C',5);

INSERT INTO GRADES VALUES ('B',7);

SELECT \* FROM GRADES;

#INNER JOIN

SELECT S.NAME,S.ID,S.AGE,S.GENDER,S.LOCATION, G.GRADE FROM

STUDENT\_DETAILS S INNER JOIN GRADES G

ON S.ID=G.ID;

#LEFT JOIN

SELECT S.NAME,S.ID,S.AGE,S.GENDER,S.LOCATION, G.GRADE FROM

STUDENT\_DETAILS S LEFT JOIN GRADES G

ON S.ID=G.ID;

#RIGHT JOIN

SELECT S.NAME,G.ID,S.AGE,S.GENDER,S.LOCATION, G.GRADE FROM

STUDENT\_DETAILS S RIGHT JOIN GRADES G

ON S.ID=G.ID;

#DELETE TABLE

CREATE TABLE EMP(NAME VARCHAR(10),ID INT);

DROP TABLE EMP;

#DELETE RECORD

CREATE TABLE EMP(NAME VARCHAR(10),ID INT);

INSERT INTO EMP VALUES('john',56);

INSERT INTO EMP VALUES('sam',66);

INSERT INTO EMP VALUES('bruce',75);

INSERT INTO EMP VALUES('dustin',45);

SELECT \* FROM EMP;

#DELETE ALL THE ROWS/RECORDS FROM TABLE

DELETE FROM EMP;

#DELETE SPECIFIC RECORD

DELETE FROM EMP WHERE NAME='bruce';

#UPDATE THE RECORD

UPDATE EMP SET NAME='STEVE' WHERE ID=66;

#VIEWS

CREATE VIEW SYDNEY\_TRANSC AS SELECT \* FROM TRANSACTIONS WHERE BRANCH='SYDNEY';

SELECT \* FROM SYDNEY\_TRANSC;

SELECT \* FROM ESTABLISHED;

CREATE VIEW COMPANY\_1992 AS

SELECT \* FROM ESTABLISHED WHERE YEAR=1992;

SELECT \* FROM COMPANY\_1992;

#NOT NULL CONSTRAINT

CREATE TABLE CUST(NAME VARCHAR(10), ID INT);

CREATE TABLE CUST1(NAME VARCHAR(10), ID INT NOT NULL);

INSERT INTO CUST VALUES('JEAN',NULL);

SELECT \* FROM CUST;

INSERT INTO CUST1 VALUES('JEAN',NULL);

#UNIQUE CONSTRAINT

CREATE TABLE E1(NAME VARCHAR(20), ID INT NOT NULL UNIQUE);

INSERT INTO E1 VALUES('BOB', 55);

INSERT INTO E1 VALUES('MARK', 41);

SELECT \* FROM E1;

INSERT INTO E1 VALUES('JOE',46);

INSERT INTO E1 VALUES('KANE',46);

#PRIMARY KEY FOREIGN KEY

CREATE TABLE CUSTOMERS(CUSTOMER\_ID INT, ADDRESS VARCHAR(20),

ZIPCODE INT,PRIMARY KEY(CUSTOMER\_ID));

CREATE TABLE ORDERS(ORDER\_ID INT, CUSTOMER\_ID INT, AMOUNT INT, DATE VARCHAR(20),

PRIMARY KEY(ORDER\_ID),FOREIGN KEY(CUSTOMER\_ID)

REFERENCES CUSTOMERS(CUSTOMER\_ID) );

INSERT INTO CUSTOMERS VALUES(2124,'BANGALORE',99);

SELECT \* FROM CUSTOMERS;

SELECT \* FROM ORDERS;

INSERT INTO ORDERS VALUES(5223,2124,1000,'JAN-5');

INSERT INTO ORDERS VALUES(4561,2124,1000,'FEB-9');

INSERT INTO ORDERS VALUES(5238,7561,1000,'MAR-19');

DELETE FROM CUSTOMERS WHERE CUSTOMER\_ID=2124;