Week 1 Video activity

Slide 1

Activity 1.1   Create a table

Example 1

Student (StudentID, StudentName, StudentPlace, StudentGrade)

Classes (ClassID, ClassName, StudentID)

Example 2

Customer (CustomerID, CustomerName, CustomerStatus)

Billing (BillingID, CustomerID, Amount)

Activity 1.2   Add keys

Example 1

Classes. StudentID references Student. StudentID

Example 2

Billing. CustomerID references Customer. CustomerID

Activity 1.3   Domains

Example 1

Student (StudentID int, StudentName text, StudentPlace text, StudentGrade text)

Classes (ClassID int, ClassName text, StudentID int)

Example 2

Customer (CustomerID int, CustomerName text, CustomerStatus text)

Billing (BillingID int, CustomerID int, Amount int)

Slide 2

Query 1:   SELECT B.title FROM Books B,Publishers P WHERE B.pubid = P.id AND P. name = 'Doubleday' ;

Output:

    Title

 The Nickel Boys

(1 row)

Query 2: SELECT B.title FROM Books B, Publishers P WHERE P.name = 'Doubleday';

          title

 It

 Hamlet

 I Know Why the Caged Bird Sings

 A Suitable Boy

 The Joy Luck Club

 Like Water for Chocolate

 Tita's Diary

 From Heaven Lake

 Kite Runner

 The Vanishing Half

 September Love

 The Nickel Boys

 The Alchemist

 Love and Misadventure

(14 rows)

Example 1

INSERT INTO Student VALUES(8, 'Abi', 'Portland', 'A');

INSERT INTO Classes VALUES(1203, 'Biology', 1);

Example 2

INSERT INTO Customer VALUES(100, 'Ben', 'Active');

INSERT INTO Billing VALUES(643, 100,733);

Activity 2.2   Single Table Queries

Q1.   Find the name of Student with student id is 8

 SELECT StudentName FROM Student WHERE StudentID = 8;

Q2.   Find the classes with classID more than 1000

SELECT * FROM Classes WHERE ClassID > 1000 ;

Activity 2.3   Two table Queries

Q1. Find the name of students who is taking maths class

SELECT StudentName FROM Student s, Classes c WHERE c.StudentID= s.StudentID AND c.ClassName = 'maths';

Q2. Find the Customer names who have billing amount more than 500.

SELECT CustomerName FROM Customer c, Billing b WHERE b.CustomerID = c.CustomerID AND b.amount>500;