

RDBMS - 2 Practical Assignment - 1

1)

BillDetails(

BillNo:INTEGER,

ItemCode:STRING,

Price:MONEY,

Qty:INTEGER,

Sum:MONEY)

Write a trigger that will calculate Sum Automatically.

1)

MarkTable(

Student RollNumber, (User Input)

Sub1, (User Input)

Sub2, (User Input)

Sub3, (User Input)

Percentage, (Calculation)

Following are the passing standards for the student

- Student must score at least 40 marks in each subject otherwise Grade is Fail
 -
- if percentage ≥ 70 then Result is Distinction, percentage ≥ 60 and percentage ≤ 69 then Result is First Class, percentage ≥ 50 and percentage ≤ 59 then Result is Second Class, percentage ≥ 40 and percentage ≤ 49 then Result is Pass Class, percentage < 40 then Result is Fail. (Note: Marks for all subjects are out of 100)

Create Trigger to calculate Grade.

3.

Create Database Trigger to calculate Discount & NetPayment automatically.

Bill(

BillNo,
BillDate,
BillAmount,
Discount,
NetPayment

If BillAmount is less than 1000 Discount Percentage is 5%, BillAmount is more than 1000 and less than 10000 Discount is 10%, BillAmount is Greater than 10000 Discount is 20%,

Note: users will enter BillNo, BillDate and BillAmount.

4.

CityMaster
(CityCode,
CityName,
CityCategory)
City Category can be A, B or C

EmployeeMaster(
EmpCode,
EmpName,
EmpAge,
CityCode,
BASIC,
HRA,
DA,
GROSS)

if City Cateogry A=> HRA 10, B => HRA 15, C=> HRA 20

DA is fixed @ 42

Considering above values calculate GROSS = BASIC+ HRA +DA salary of employee.

For example, BASIC = 10000, CityCategory is A

HRA = $10000 \times 10 / 100 = 1000$, DA = $10000 \times 42 / 100 = 4200$

GROSS = $10000 + 1000 + 4200 = 152000$

Assume that the user will enter EmpCode, EmpName, EmpAge, CityCode & Basic Assume that in the CityMaster Table CityCode, CityName & CityCategory information is available.

5.

Consider following tables

Category Master Table

CategoryID

CategoryName

Item Master Table

ItemCode

ItemName

ItemPrice

ItemQTY

CategoryID

Create a Trigger that will delete all items from the Item Master Table when related Category is deleted from the Category Master Table.

6) Consider following Table:

BillMaster

(SrNo, BillDate, CustomerCode, BillNo, BillAmount)

Create a Function that will accepts

(FromDate, ToDate, CustomerCode) and return total bill amount for particular customer.

7) Consider following Table:

BillMaster(SrNo, BillDate, CustomerCode, BillNo, BillAmount, AmountPaid)

Create a function that will return total outstanding payment for a particular time period. i.e.
outstandingPayment(FromDate, ToDate)

8) StudentMaster

(StudentID,

StudentFirstName,

StudentLastName,

StudentCategory,

BirthDate,

SemesterNo, CityCode)

CityMaster

(City Code, City Name)

* category can be 'OPEN', 'SC', 'ST', 'SEBC'

A) Create Stored Procedure to count total no students for specific category.

TotalStudentCountCategorywise(StudentCategory)

TotalStudentCategorywise('SEBC') will return total number of students in SEBC category.

B) Create Stored Procedure to count total no students of specific surname

TotalStudentCountOfSpeicifcSurname(StudentLastName)

TotalStudentCountOfSpeicifcSurname('SHAH') will return total number of students with SHAH surname

9) Consider following ItemMaster Table

ItemMaster(SrNo, ItemCode, ItemName, ItemPrice, QTYOnHand)

Q: Create a function that will return ItemName which has highest QTYOnHand.

10) Create following tables:

1) HotelMaster(HotelCode, HotelName, HotelRatingID, Telephone, CityCode, Address, Webiste)

2) CityMaster(CityCode, CityName)

3) HotelRatingMaster(HotelRatingID, HotelRatingName)

Write a Stored Procedure that will take City Name & HotelRatingName as an input argument and display all hotels of a specific category and city.

11)

Dealer Master

Sales Information

City Master

Dealer Code	Year	City Code
Dealer Name	Month	City Name
City Code	Dealer Code	
Address	Sales Amount	
Telephone		
Mobile		

Create following stored procedure based on above mentioned table structure:

a) GetSalesAmountTotalCityAndYearWise

('CityName', Year)

e.g. GetSalesAmountTotalCityAndYearWise ('Surat', 2010) will give Sales total of Surat City in the Year 2010)

b) GetTopDealerNameCityWiseandYearWise (CityName, Year)

e.g. GetTopThreeDealerNameCityWiseandYearWise('Surat', 2010) will give Name of **TOP DEALER** of the Surat City in the Year 2010