

Team 20

Nick Lewis

Crayton McIntosh

Steven McLean

Jarron Rice

Tues/Thurs, 12:30

DATABASE DEVELOPMENT PROJECT PLAN

Planning, Analysis, Design, and Implementation Tasks

Project Part 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TASK** | **TEAM MEMBER** | **PLANNED COMPLETION** | **ACTUAL COMPLETION** | **DESCRIPTION** |
| Cover Page | JR | 2-28-16 | 2-28-16 | Opening page of report |
| Project Plan | JR | 2-28-16 | 2-28-16 | Detailed plan of activities |
| ERD | NL,CM,JR,SM | 3-1-16 | 3-2-16 | Detailed Entity Relationship Diagram |
| Fields | NL,CM,JR,SM | 3-1-16 | 3-2-16 | Description of our ERD’s entities and attributes |

Project Part 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TASK** | **TEAM MEMBER** | **PLANNED COMPLETION** | **ACTUAL COMPLETION** | **DESCRIPTION** |
| SQL Deliverables | NL, CM, JR, SM | 4-20-16 | 4-20-16 | Created the SQL queries |
| Stored Procedures | JR | 4-20-16 | 4-20-16 | Create the SQL stored procedures code |

Database Implementation Script:

CREATE TABLE Team20

(

FirstName varchar(255) NULL,

LastName varchar(255) NULL,

Email varchar(255) NULL,

ImgSource varchar(500) NULL,

Classification varchar(255) NULL

)

INSERT INTO Jarron\_Rice.Team20

VALUES ('Jarron',

'Rice',

'jarron\_rice@baylor.edu',

'https://www.google.com/search?q=jarron+rice&espv=2&biw=944&bih=927&tbm=isch&imgil=kpuChNzGzmwDtM%253A%253B\_xSNK7OrGHXY4M%253Bhttps%25253A%25252F%25252Fwww.linkedin.com%25252Fin%25252Fjarron&source=iu&pf=m&fir=kpuChNzGzmwDtM%253A%252C\_xSNK7OrGHXY4M%252C\_&usg=\_\_OWMUmVwhNUGd3uJmIFP1iF5GE6g%3D&ved=0ahUKEwjzv97iypnMAhXksYMKHU67CaUQyjcIKQ&ei=ao4VV\_PiGuTjjgTO9qaoCg#imgrc=kpuChNzGzmwDtM%3A',

'Senior');

INSERT INTO Jarron\_Rice.Team20

VALUES ('Crayton',

'McIntosh',

'crayton\_mcintosh@baylor.edu',

'https://www.google.com/search?q=crayton+mcintosh&espv=2&biw=1600&bih=775&tbm=isch&imgil=Q8mhdo1C6aGHXM%253A%253BxdaU76FrD-j-uM%253Bhttps%25253A%25252F%25252Fwww.linkedin.com%25252Fin%25252Fcrayton-mcintosh-66845854&source=iu&pf=m&fir=Q8mhdo1C6aGHXM%253A%252CxdaU76FrD-j-uM%252C\_&usg=\_\_8D76n2OYHzod394g9YOuV881CZE%3D&ved=0ahUKEwi7ifmypaDMAhWhlYMKHWcZBJ0QyjcIKQ&ei=wBIZV7upEKGrjgTnspDoCQ#imgrc=Q8mhdo1C6aGHXM%3A',

'Senior');

INSERT INTO Jarron\_Rice.Team20

VALUES ('Steven',

'McLean',

'steven\_mclean@baylor.edu',

'https://www.google.com/search?q=steven+mclean+baylor&espv=2&biw=1600&bih=775&tbm=isch&imgil=pHsbr\_MWFfBYMM%253A%253B8odamV2BXLaoKM%253Bhttp%25253A%25252F%25252Fbaylortix.com%25252Fbb15%25252Froster%25252F&source=iu&pf=m&fir=pHsbr\_MWFfBYMM%253A%252C8odamV2BXLaoKM%252C\_&usg=\_\_xh0z-EUZsNfmVk9GDlo2JlPAh0o%3D&ved=0ahUKEwj2o9D9pKDMAhVEsIMKHXRLAY8QyjcINQ&ei=UBIZV\_a7G8TgjgT0loX4CA#imgrc=CTXulMMf0-32UM%3A',

'Junior');

INSERT INTO Jarron\_Rice.Team20

VALUES ('Nick',

'Lewis',

'nick\_lewis@baylor.edu',

'https://www.google.com/search?q=nick+lewis+baylor&espv=2&biw=1600&bih=775&tbm=isch&imgil=POnHLAfMaX2UdM%253A%253Bl4TsK8RoxHt6vM%253Bhttp%25253A%25252F%25252Fwww.baylorbears.com%25252Fsports%25252Fm-basebl%25252Fmtt%25252Fnick\_lewis\_874096.html&source=iu&pf=m&fir=POnHLAfMaX2UdM%253A%252Cl4TsK8RoxHt6vM%252C\_&usg=\_\_1KB4XVZgDs64-J9n9tpsIdAGmgg%3D&ved=0ahUKEwiZsLmmpaDMAhXluIMKHcSwBgoQyjcIQA&ei=phIZV5nFA-XxjgTE4ZpQ#imgrc=POnHLAfMaX2UdM%3A',

'Junior');

SELECT \* FROM Jarron\_Rice.Team20;

GRANT INSERT, UPDATE, DELETE ON Team20 TO [Baylor\crayton\_mcintosh], [Baylor\steven\_mclean], [Baylor\nick\_lewis];

CREATE TABLE Costs20x

(

CostID numeric(10),

SponsorID numeric(10),

CostTypeID numeric(10),

DateOfCost datetime,

NumberOfLaborHours decimal(10,2),

TotalCost decimal(10,2),

TeamNumber numeric(10)

)

SELECT TOP 10 \*

INTO Costs20x

FROM Costs;

SELECT TOP 1 \*

FROM Costs20x;

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TRIGGER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

IF EXISTS (SELECT name FROM sysobjects

WHERE name = 'name1'

AND TYPE = 'name2')

DROP TRIGGER

t20trig;

GO

CREATE TRIGGER t20trigger ON Costs20x

AFTER INSERT

AS

DECLARE

@CostID AS int,

@NumLabHrs AS int,

@HrlyRate AS numeric(3,2),

@OldCost AS numeric,

@NewCost AS numeric(6,2)

BEGIN

SELECT @CostID = CostID

FROM INSERTED;

SELECT @NumLabHrs = NumberOfLaborHours

FROM INSERTED;

SELECT @OldCost = TotalCost

FROM INSERTED;

IF @OldCost IS NULL

BEGIN

IF @NumLabHrs IS NOT NULL

BEGIN

SELECT @HrlyRate = HourlyRate

FROM HourlyLaborRate

WHERE EndDate IS NULL;

SET @NewCost = ((@NumLabHrs) \* @HrlyRate);

Update Costs20x

SET TotalCost = @NewCost

WHERE CostID = @CostID;

END

END

END

GO

INSERT INTO Costs20x

VALUES (315, 2, 4, GETDATE(), 79, NULL, 20);

GO

SELECT \*

FROM Costs20x

WHERE CostID = 315;

INSERT INTO Costs20x

VALUES (316, 2, 3, GETDATE(), 69, 500.25, 20);

GO

SELECT \*

FROM Costs20x

WHERE CostID = 316;

/\*\*\*\*\*\*\*\*\*\*STORED PROCEDURES\*\*\*\*\*\*\*\*/

IF EXISTS (SELECT name FROM sysobjects

WHERE name = 'getEMC'

AND TYPE = 'gemc')

DROP PROCEDURE

getEMC;

GO

CREATE PROCEDURE getEMC

@WeekBeginningDate date

AS

DECLARE emccursor CURSOR FOR

SELECT DISTINCT SiteName, MealCounts.SiteID, MealCount

FROM MealCounts, Sites

WHERE MealCountDate IS NULL

AND MealCounts.SiteID = Sites.SiteID

AND WeekBeginningDate = @WeekBeginningDate

Database Implementation Output:

(1 row(s) affected)

(1 row(s) affected)

(1 row(s) affected)

(1 row(s) affected)

FirstName LastName Email ImgSource Classification

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Jarron Rice jarron\_rice@baylor.edu https://www.google.com/search?q=jarron+rice&espv=2&biw=944&bih=927&tbm=isch&imgil=kpuChNzGzmwDtM%253A%253B\_xSNK7OrGHXY4M%253Bhttps%25253A%25252F%25252Fwww.linkedin.com%25252Fin%25252Fjarron&source=iu&pf=m&fir=kpuChNzGzmwDtM%253A%252C\_xSNK7OrGHXY4M%252C\_&us Senior

Crayton McIntosh crayton\_mcintosh@baylor.edu https://www.google.com/search?q=crayton+mcintosh&espv=2&biw=1600&bih=775&tbm=isch&imgil=Q8mhdo1C6aGHXM%253A%253BxdaU76FrD-j-uM%253Bhttps%25253A%25252F%25252Fwww.linkedin.com%25252Fin%25252Fcrayton-mcintosh-66845854&source=iu&pf=m&fir=Q8mhdo1C6aGHXM%253A%25 Senior

Steven McLean steven\_mclean@baylor.edu https://www.google.com/search?q=steven+mclean+baylor&espv=2&biw=1600&bih=775&tbm=isch&imgil=pHsbr\_MWFfBYMM%253A%253B8odamV2BXLaoKM%253Bhttp%25253A%25252F%25252Fbaylortix.com%25252Fbb15%25252Froster%25252F&source=iu&pf=m&fir=pHsbr\_MWFfBYMM%253A%252C8odamV2B Junior

Nick Lewis nick\_lewis@baylor.edu https://www.google.com/search?q=nick+lewis+baylor&espv=2&biw=1600&bih=775&tbm=isch&imgil=POnHLAfMaX2UdM%253A%253Bl4TsK8RoxHt6vM%253Bhttp%25253A%25252F%25252Fwww.baylorbears.com%25252Fsports%25252Fm-basebl%25252Fmtt%25252Fnick\_lewis\_874096.html&source=iu&pf Junior

(4 row(s) affected)

(1 row(s) affected)

(1 row(s) affected)

CostID SponsorID CostTypeID DateOfCost NumberOfLaborHours TotalCost TeamNumber

--------------------------------------- --------------------------------------- --------------------------------------- ----------------------- --------------------------------------- --------------------------------------- ---------------------------------------

315 2 4 2016-04-21 15:05:46.057 79.00 572.75 20

(1 row(s) affected)

(1 row(s) affected)

CostID SponsorID CostTypeID DateOfCost NumberOfLaborHours TotalCost TeamNumber

--------------------------------------- --------------------------------------- --------------------------------------- ----------------------- --------------------------------------- --------------------------------------- ---------------------------------------

316 2 3 2016-04-21 15:05:46.070 69.00 500.25 20

(1 row(s) affected)

Queries Script:

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Query 1: Display all menus and the number of times the menu has been

distributed. Display the results in order of the meal types

and then listing menus with the most distributions first.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

SELECT DISTINCT Menus.MenuID, NumberMealsDelivered

FROM Menus, SiteDistributions

WHERE Menus.MenuID=SiteDistributions.MenuID

ORDER BY NumberMealsDelivered DESC;

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Query 2: For each sponsor display total purchase-related costs

to-date. A cost is purchase-related if the cost

description has the word “purchase” in it.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

SELECT Costs.SponsorID, SUM(TotalCost) AS "Total Purchase-Related Costs"

FROM Costs, CostTypes

WHERE CostTypeDescription LIKE '%purchase%'

AND Costs.CostTypeID=CostTypes.CostTypeID

GROUP BY SponsorID

ORDER BY SponsorID;

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Query 3: Display the 5 sites serving the most meals within the past 3 years.

Also display the total number of meals served by those sites.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

SELECT TOP 5 Sites.SiteID, SiteName, NumberMealsDelivered, DateDistributed

FROM Sites, SiteDistributions

WHERE DATEDIFF(YEAR, DateDistributed, GETDATE()) >= 3

AND Sites.SiteID=SiteDistributions.SiteID

ORDER BY NumberMealsDelivered DESC;

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Query 4: Display total number of meals served and anticipated total

reimbursement by sponsor, year, month, and meal type, in this order.

The reimbursement rate for each meal type is in the ReimbursementRate table.

The current reimbursement rate has an EndDate of NULL.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

SELECT DISTINCT Sponsors.SponsorID,

YEAR(DateDistributed) AS "Year",

MONTH(DateDistributed) AS "Month",

ReimbursementRate.MealTypeCode,

SUM(MealCount) AS "Total Meals",

(ReimbursementRate \* SUM(MealCount)) AS "Total Reimbursement"

FROM Sponsors, MealCounts, ReimbursementRate, SiteDistributions

WHERE Sponsors.SponsorID=SiteDistributions.SponsorID

AND ReimbursementRate.MealTypeCode=MealCounts.MealTypeCode

GROUP BY Sponsors.SponsorID, ReimbursementRate.MealTypeCode, ReimbursementRate, DateDistributed;

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Query 5: Display a breakdown of total operational costs by cost

description. Show descriptions with most costs first.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

SELECT DISTINCT CostTypeDescription, SUM(TotalCost) AS "Total Cost"

FROM Costs, CostTypes

WHERE CostTypeCategory = 'Operational'

AND CostTypes.CostTypeID=Costs.CostTypeID

GROUP BY CostTypeDescription

ORDER BY SUM(TotalCost) DESC;

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

STORED Display sites that did not report meal counts for a user-

PROCEDURE1: specified week-beginning date. Do NOT hardcode information.

USE a cursor and use a print statement.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

exec getEMC @WeekBeginningDate = '2013-06-03';

Queries Output:

MenuID NumberMealsDelivered

----------- --------------------

6 122

5 120

8 117

1 112

3 102

3 100

4 100

6 100

1 98

2 96

5 96

9 96

8 80

10 79

4 78

3 75

6 75

8 75

6 65

4 62

5 56

7 51

8 51

7 50

1 45

4 45

3 38

7 22

(28 row(s) affected)

SponsorID Total Purchase-Related Costs

----------- ---------------------------------------

2 1111.00

3 1620.00

(2 row(s) affected)

SiteID SiteName NumberMealsDelivered DateDistributed

----------- ---------------------------------------------------------------------------------------------------- -------------------- -----------------------

4 Evans 122 2013-06-18 00:00:00.000

3 Dunbar 120 2013-07-15 08:00:00.000

20 Cricket Court 117 2013-09-29 09:00:00.000

46 YMCA of Lubbock 112 2013-07-08 00:00:00.000

1 Atkins 102 2013-06-15 08:00:00.000

(5 row(s) affected)

SponsorID Year Month MealTypeCode Total Meals Total Reimbursement

----------- ----------- ----------- ------------ ----------- ---------------------------------------

2 2013 6 B 12844 25976.9900

2 2013 6 L 51812 183673.5400

2 2013 6 SN 29586 24852.2400

2 2013 7 B 12844 25976.9900

2 2013 7 L 51812 183673.5400

2 2013 7 SN 29586 24852.2400

2 2013 8 B 12844 25976.9900

2 2013 8 L 51812 183673.5400

2 2013 8 SN 29586 24852.2400

2 2013 9 B 12844 25976.9900

2 2013 9 L 51812 183673.5400

2 2013 9 SN 29586 24852.2400

3 2013 6 B 12844 25976.9900

3 2013 6 L 51812 183673.5400

3 2013 6 SN 29586 24852.2400

3 2013 7 B 12844 25976.9900

3 2013 7 L 51812 183673.5400

3 2013 7 SN 29586 24852.2400

3 2013 8 B 12844 25976.9900

3 2013 8 L 51812 183673.5400

3 2013 8 SN 29586 24852.2400

3 2013 11 B 12844 25976.9900

3 2013 11 L 51812 183673.5400

3 2013 11 SN 29586 24852.2400

3 2013 12 B 12844 25976.9900

3 2013 12 L 51812 183673.5400

3 2013 12 SN 29586 24852.2400

(27 row(s) affected)

CostTypeDescription Total Cost

---------------------------------------------------------------------------------------------------- ---------------------------------------

Food Purchase 1775.00

Meal Delivery Labor 1707.00

Transportation Cost 1198.00

Supplies Purchase 956.00

Meal Prep Labor 580.00

Other (operational) 290.00

(6 row(s) affected)

Database Removal Script:

/\*\*\*\*\*\*\*\*\*\*\*\*\*\* REMOVAL SCRIPT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

DROP TABLE Team20;

GO

DROP TABLE Costs20x;

GO

DROP PROCEDURE getEMC;

GO

DROP TRIGGER t20trig;

GO

Database Removal Output:

Command(s) completed successfully.