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CPT 232

Program 7

12/7/11

**Data Dictionary**

**Analysis**

Outputs: line\_number, ticket\_string, ticketQty, coupon\_string, ticketCost, delta, total\_adult\_tickets, total\_adult\_cost, total\_junior\_tickets, total\_junior\_cost, total\_child\_tickets, total\_dollar\_sales, total\_delta, total\_coupon\_loss

**Name** **Type** **Description**

salesIn ifstream input file stream object to read data file

ticketDate string date from records

ticket\_string string full string display of type of ticket

coupon\_string string full string display of coupon choice

ticketType char ticket type, ‘A’, ‘J’, ‘C’

coupon char coupon type, ‘Y’, ‘N’

DISCOUNT const double const double 25 percent for coupons

JUNIOR\_TICKET\_COST const double const double of 7.5

ADULT\_TICKET\_COST const double const double of 11.5

line\_number int counter for line number and number of records initialize to 0

ticketQty int quantity of tickets purchased

total\_adult\_tickets int total amount of adult tickets sold, initialize to 0

total\_junior\_tickets int total amount of junior tickets sold, initialize to 0

total\_child\_tickets int total amount of child tickets sold, initialize to 0

ticketCost double cost of the tickets

correct\_ticket\_cost double actual charge for ticket without glitch as well as cost without coupon

delta double difference between cost and should have been charged, initialize to 0.0

total\_adult\_cost double total cost of all adult tickets, initialize to 0.0

total\_junior\_cost double total cost of all junior tickets, initialize to 0.0

total\_dollar\_sales double total sales overall

total\_delta double total dollar over or under actual revenue, initialize to 0

total\_savings double total savings from single coupon sale

total\_coupon\_loss double total loss from coupon sales, initialize to 0.0

**Calculated Values**

line\_number++

correct\_ticket\_cost = ticketQty \* ADULT\_TICKET\_COST

correct\_ticket\_cost = ticketQty \* JUNIOR\_TICKET\_COST

correct\_ticket\_cost -= (correct\_ticket\_cost \* DISCOUNT)

delta = ticketCost – correct\_ticket\_cost

total\_adult\_tickets += ticketQty

total\_adult\_cost += ticketCost

total\_junior\_tickets += ticketQty

total\_junior\_cost += ticketCost

total\_child\_tickets += ticketQty

total\_delta += delta

total\_dollar\_sales = total\_adult\_cost + total\_junior\_cost

total\_savings = correct\_ticket\_cost - ticketCost

**Flowchart**

Start

if(salesIn.is\_open())

Open file ssw-sales.dat

JUNIOR\_TICKET\_COST = 7.50, ADULT\_TICKET\_COST = 11.50,

DISCOUNT = .25, delta = 0.0

line\_number = 0,

total\_adult\_tickets = 0,

total\_adult\_cost = 0.0,

total\_junior\_tickets = 0,

total\_junior\_cost = 0.0,

total\_child\_tickets = 0,

total\_delta = 0.0,

total\_coupon\_loss = 0.0

N

while (eof)

Display error

Input ticketDate, ticketType, ticketQty, coupon, ticketCost

Y

N

Y

Close file ssw-sales.dat

line\_number++

total\_dollar\_sales = total\_adult\_cost + total\_junior\_cost

ticketType = toupper(ticketType)

Display line\_number, total\_adult\_tickets, total\_adult\_cost, total\_junior\_tickets, total\_junior\_cost, total\_child\_tickets, total\_dollar\_sales, total\_delta, total\_coupon\_loss

total\_coupon\_loss = coupon\_loss()

coupon = toupper(coupon)

ticket\_string = full\_ticket\_display()

coupon\_string = full\_coupon\_display()

delta = delta\_calc()

Display line\_number, ticket\_string, ticketQty

if (ticketType != ‘C’)

Y

N

Display coupon\_string, ticketCost, delta

total\_adult\_cost += ticketCost

total\_adult\_tickets += ticketQty

if (ticketType == ‘A’)

N Y

if (ticketType == ‘J’)

N Y

total\_junior\_tickets += ticketQty

total\_junior\_tickets += ticketQty

total\_child\_tickets += ticketQty

total\_delta += delta

Input ticketDate, ticketType, ticketQty, coupon, ticketCost

Passed in:

ticketType

if (ticketType == ‘A’ )

full\_ticket\_display()

N Y

if (ticketType == ‘J’ )

ticket\_string = “Adult”

N Y

return ticket\_string

ticket\_string = “Junior”

ticket\_string = “Child”

full\_coupon\_display()

Passed in:

coupon

if( coupon == ‘Y’ )

N Y

return coupon\_string

coupon\_string = “No”

coupon\_string = “Yes”

Passed in:

ticketType

coupon

ticketQty

ticketCost

ADULT\_TICKET\_COST

JUNIOR\_TICKET\_COST

DISCOUNT

delta = ticketCost –

correct\_ticket\_cost

correct\_ticket\_cost -=

(correct\_ticket\_cost \*

DISCOUNT)

delta = ticketCost –

correct\_ticket\_cost

if (coupon == ‘Y’ )

correct\_ticket\_cost = ticketQty \*

ADULT\_TICKET\_COST

delta\_cal()

if (ticketType == ‘A’ )

N Y

if (ticketType == ‘J’ )

Y

correct\_ticket\_cost = ticketQty \*

JUNIOR\_TICKET\_COST

Y

delta = ticketCost –

correct\_ticket\_cost

correct\_ticket\_cost -=

(correct\_ticket\_cost \*

DISCOUNT)

if (coupon == ‘Y’ )

N N Y

delta = ticketCost –

correct\_ticket\_cost

N Y

return delta

Open file ssw-sales.dat

coupon\_loss()

Passed in:

JUNIOR\_TICKET\_COST

ADULT\_TICKET\_COST

if(salesIn.is\_open())

N

while (eof)

Input ticketDate, ticketType, ticketQty, coupon, ticketCost

Y

Display error

N

Y

Close file ssw-sales.dat

if(coupon == ‘Y’)

return total\_coupon\_loss

N Y

N Y

Input ticketDate, ticketType, ticketQty, coupon, ticketCost

if (ticketType == ‘A’ )

correct\_ticket\_cost = ticketQty \*

ADULT\_TICKET\_COST

correct\_ticket\_cost = ticketQty \*

JUNIOR\_TICKET\_COST

total\_savings = correct\_ticket\_cost - ticketCost

total\_savings = correct\_ticket\_cost - ticketCost

total\_coupon\_loss += total\_savings