



**EXTRA PRACTICE ACCESS
ASSIGNMENT
FALL 2009**

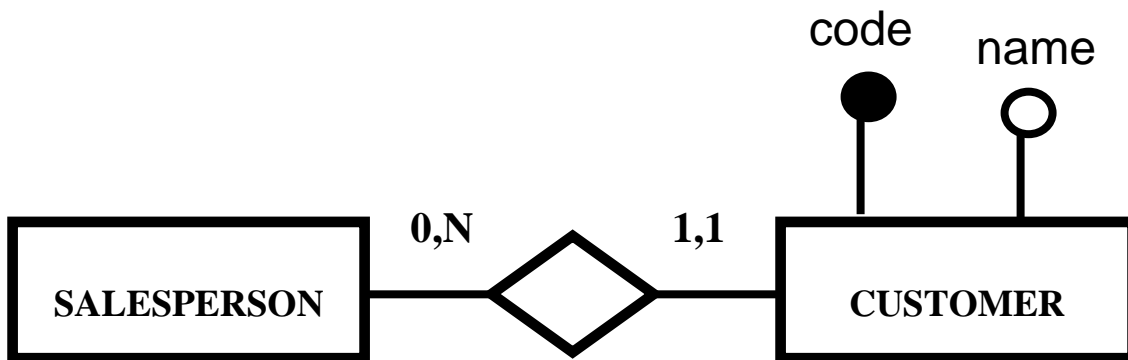
Use the “start” database for the first question (design).
Use the “stuffed animals” database (stufan) for all other questions

PART I: DESIGN QUESTION (2 POINTS)

ASSIGNMENT

Extend the start.mdb database with the Customer entity (see E-R diagram below).

- Implement the Customer entity (code is number and name is text).
- Implement the SalesPerson -- Customer relationship.
- Make sure that participation of Customer in the Customer-Salesperson relationship is mandatory.
- Make sure that participation of Salesperson in the SalesPerson-Customer relationship is optional (subset).



PART II: QUERIES 1-10 (1 point queries)

QUERY 1

ASSIGNMENT

Generate a list of all products [Item] (description) that are either of category “dwarfs” or of category “tintin” and for which there are less than 20 or more than 50 in stock (qoh).

SOLUTION

Description
BashFul Large
BashFul Small
Captain Haddock
Grumpy Large
Grumpy Small
Happy Large
Happy Small
Sleepy Small
Sneezy Small
Snow White Large
Snow White Small

QUERY 2

ASSIGNMENT

Total quantity of items sold per state in February and March

SOLUTION

State	Total Quantity Sold in February and March
AZ	80
DE	180
FL	86
IL	70

QUERY 3

ASSIGNMENT

List of all potential customers living outside Newark; that is: customers living outside Newark that haven't bought anything from us yet.

SOLUTION

Name
Sidonia Lang

QUERY 4

ASSIGNMENT

For each of the Salespeople, list the total number of items (quantity) sold per State.

SOLUTION

Name	State	TotalQuantitySold
Angela Lafrance	FL	26
Angela Lafrance	IL	70
Brad Watson	AZ	97
Stacy Smith	FL	10
Wesley Meckstroh	DE	228

QUERY 5

ASSIGNMENT

List of all Customers each SalesPerson has sold items to.

SOLUTION

Salesperson	Customer
Angela Lafrance	Asterix the Gaul
Angela Lafrance	Lucky Luke
Brad Watson	Cruella De Vil
Stacy Smith	Scar LeRoi
Wesley Meckstroh	Rosy Gobelijn
Wesley Meckstroh	Winnie Pooh

QUERY 6

ASSIGNMENT

What is the average price we asked customers to pay for each of the 'Aristocats' Items?

SOLUTION

ITEM	AVERAGE PRICE
Berlioz	25
Duchess	23.5
Marie	25
Thomas	25
Toulouse	25

QUERY 7

ASSIGNMENT

List of SalesPeople (name) that have sold at least one item of \$30 or more (price).

SOLUTION

Name
Angela Lafrance
Brad Watson
Stacy Smith
Wesley Meckstroh

QUERY 8

ASSIGNMENT

For all customers that have bought goods (items), list the total sale amount and the total amount of payments.

SOLUTION

NAME	SALESTOTAL	PAYMENTTOTAL
Asterix the Gaul	1220	600
Cruella De Vil	2595	1100
Lambik Wawa	1370	1350
Lucky Luke	1656	556
Rosy Gobelijn	2630	
Scar LeRoi	300	300
Winnie Pooh	3125	

QUERY 9

ASSIGNMENT

Show payment information for sales with invoice numbers 1, 2, 3 and 4. Show invoice number, invoice total, the cash receipts (remittance advice numbers) that pay for the invoices, and the amount of these cash receipts used to pay for the invoices.

SOLUTION

invoicenumber	invoice total	cashreceipt	amount
1	600	1	600
2	400	6	400
3	300	2	300
4	600	3	300
4	600	4	300

QUERY 10

ASSIGNMENT

List all cash receipts that pay for two or more invoices.

SOLUTION

cashreceipt
6

PART III: QUERIES 11-14 (2 point queries)

QUERY 11

ASSIGNMENT

List of items (descriptions) that haven't been sold yet.

SOLUTION

Description
BashFul Large
BashFul Small
Grumpy Small
Happy Large
Sleepy Small
Snow White Small
Snowy

QUERY 12

ASSIGNMENT

Determine the total number of different (!) items bought by each Customer.

SOLUTION

Name	NumberOfDifferentItems
Asterix the Gaul	3
Cruella De Vil	6
Lambik Wawa	6
Lucky Luke	3
Rosy Gobelijn	3
Scar LeRoi	1
Winnie Pooh	5

QUERY 13

ASSIGNMENT

We would like to give an award to the salesperson with the highest sales total (\$) who lives outside Wilmington. What is the name of this SalesPerson?

SOLUTION

Name
Brad Watson

QUERY 14

ASSIGNMENT

Name of the salesperson with the highest average invoice total in March.

SOLUTION

Name
Wesley Meckstroh