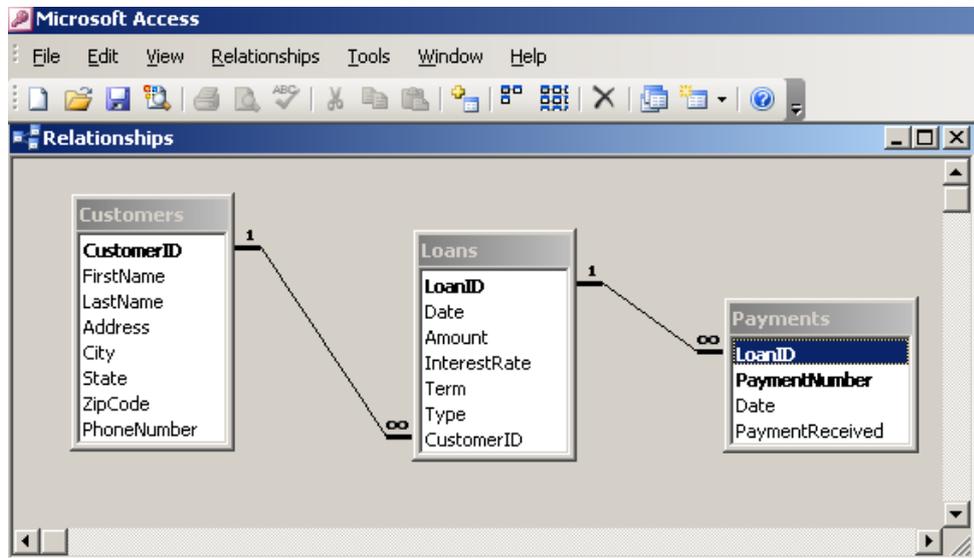# INF 293 Computer Programming for Business Applications
Class Work – 7 (Creating Relationships, Queries and Reports)

1. Start Access. Open **National Bank** database. This database consists of three tables: **Customers**, **Loans**, and **Payments**.

2. Create the following relationship between the tables:

3. Create a report to list all customers and their loan information as shown below. The report is sorted by customers' last name and loan date.

   Hint: Use Customers table and Loans table.

Customers Master List

Last Name	First Name	Type	Date	Amount	InterestRate	Term
Faulkner	Eileen					
		M	8.02.1999	$200.000	7,00%	15
		M	1.03.1999	$150.000	7,50%	15
		M	2.03.1999	$100.000	7,00%	30
Grauer	Benjamin					
		M	1.03.1999	$200.000	7,25%	15
		O	1.03.1999	$15.000	6,50%	3
		C	5.04.1999	$25.000	8,50%	4
		M	1.05.1999	$150.000	6,00%	15
Hirsch	Matt					
		O	5.02.1999	$35.000	6,50%	5
		M	0.03.1999	$129.000	8,50%	15
		M	2.04.1999	$350.000	7,50%	15
Myerson	Ted					
		M	8.02.1999	$525.000	6,50%	30

4. Create a report for loans grouped by loan type and sorted by loan date within the group as shown below:
   Hint: Use Loans table and Customers table.

Loans

Type	Date	LoanID	Amount	First Name	Last Name
C					
	23.01.1999	L004	$35.000	Wendy	Solomon
	25.01.1999	L010	$10.000	Alex	Rey
	01.03.1999	L032	$25.000	Scott	Wit
	03.03.1999	L039	$56.000	David	Powell
	01.04.1999	L054	$10.000	Scott	Wit
	15.04.1999	L057	$25.000	Benjamin	Grauer
	18.04.1999	L060	$41.000	Michelle	Zacco
M					
	15.01.1999	L001	$475.000	Wendy	Solomon
	08.02.1999	L020	$525.000	Ted	Myerson
	20.02.1999	L028	$250.000	Michelle	Zacco
	28.02.1999	L031	$200.000	Eileen	Faulkner

5. Create a report for customers and their loan payment information as shown below:

   Hint: Use Customers table, Loans table and Payments table.

Customers Payments

First Name	Last Name	LoanID	Type	Loans.Date	Amount	PaymentNumber	Payments.Date	PaymentReceived
Alex	Rey							
		L010	C	25.01.1999	$10.000			
						1	25.02.1999	$301,96
						2	25.03.1999	$301,96
						3	25.04.1999	$301,96
						4	25.05.1999	$301,96
						5	25.06.1999	$301,96
		L033	O	01.03.1999	$20.000			
						1	01.04.1999	$420,04
						2	01.05.1999	$420,04
						3	01.06.1999	$420,04
Benjamin	Grauer							
		L047	M	11.03.1999	$200.000			
						1	11.04.1999	$1.825,73
						2	11.05.1999	$1.825,73
						3	11.06.1999	$1.825,73

6. Create a report listing loans that are grater than $35000, grouped by loan type as shown below:
   Hint: Use Loans table and Customers table.

Loans grater than 35000

Type	LoanID	Amount	First Name	Last Name
C				
	L060	$41.000	Michelle	Zacco
	L039	$56.000	David	Powell
M				
	L120	$275.000	Lori	Sangastiano
	L109	$350.000	Wendy	Solomon
	L100	$150.000	Benjamin	Grauer
	L062	$350.000	Matt	Hirsch
	L052	$100.000	Eileen	Faulkner
	L049	$150.000	Eileen	Faulkner
	L047	$200.000	Benjamin	Grauer
	L040	$129.000	Matt	Hirsch
	L031	$200.000	Eileen	Faulkner
	L028	$250.000	Michelle	Zacco
	L020	$525.000	Ted	Myerson
	L001	$475.000	Wendy	Solomon

7. Create a report to list the loans of Benjamin Grauer.

8. Create a report to list the name and phone numbers of customers with the loans L028, L109 and L039.

9. Create a report to list all payments that were made by Wendy Solomon.

   Hint: Use Customers table, Loans table and Payments table.