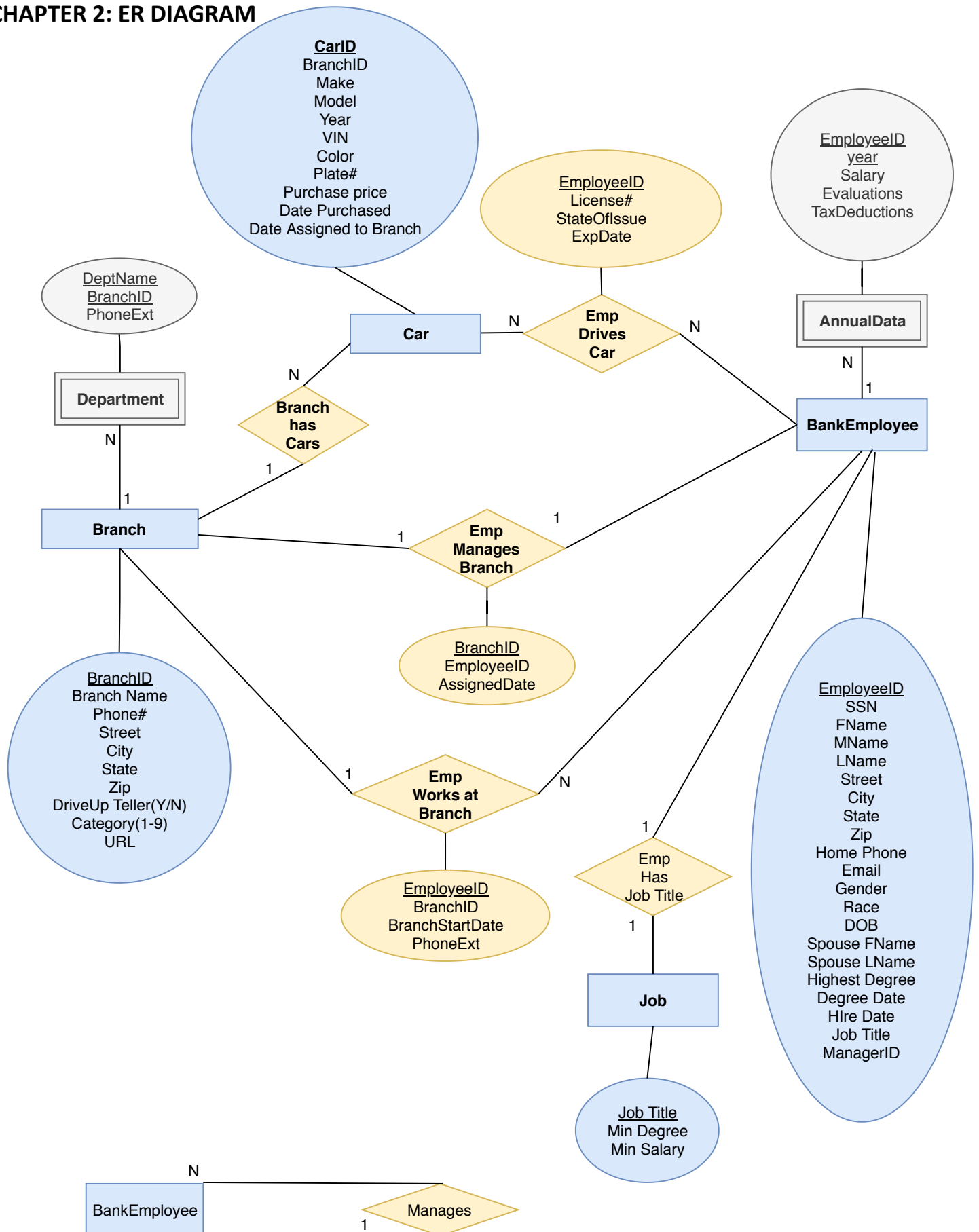
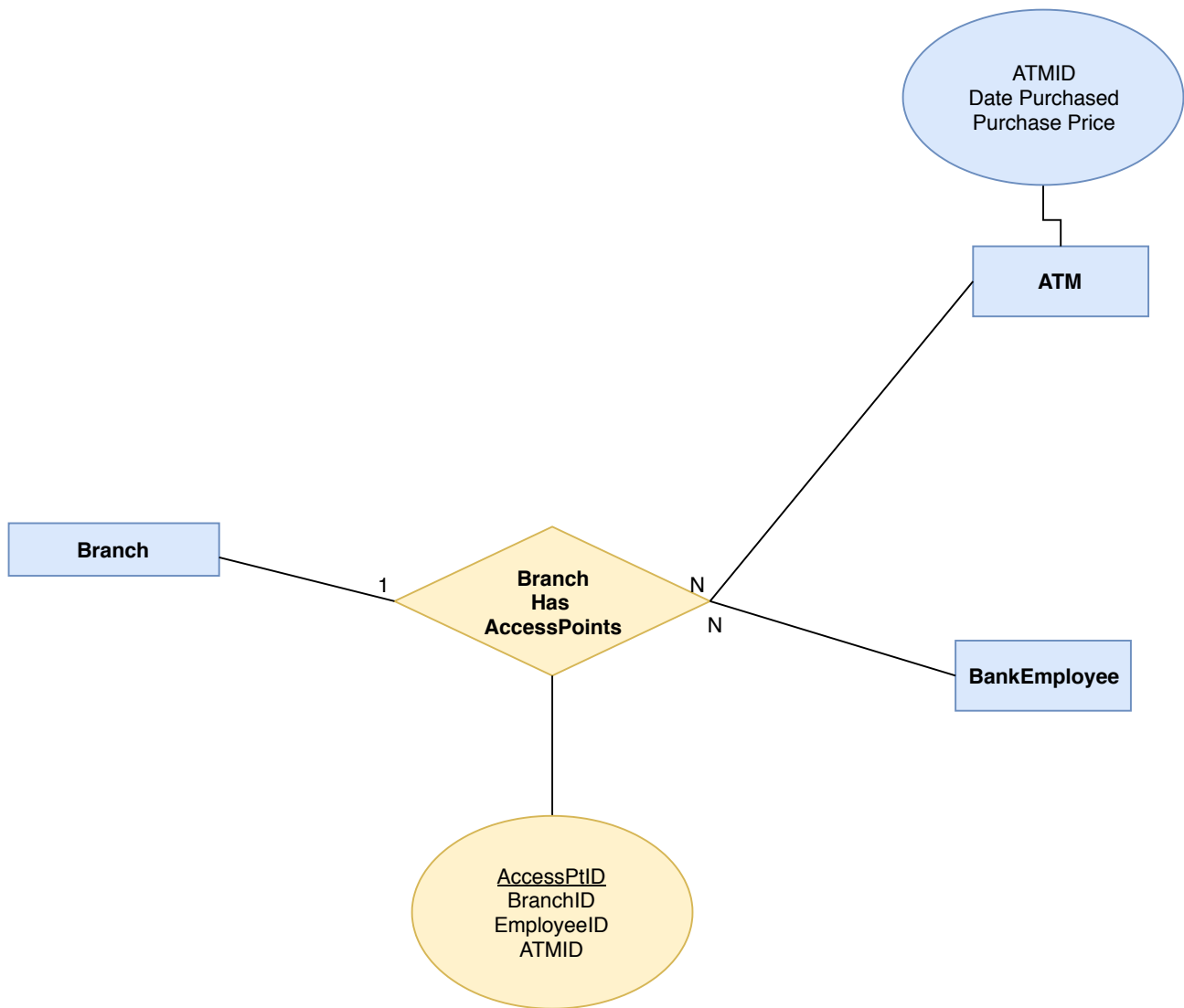
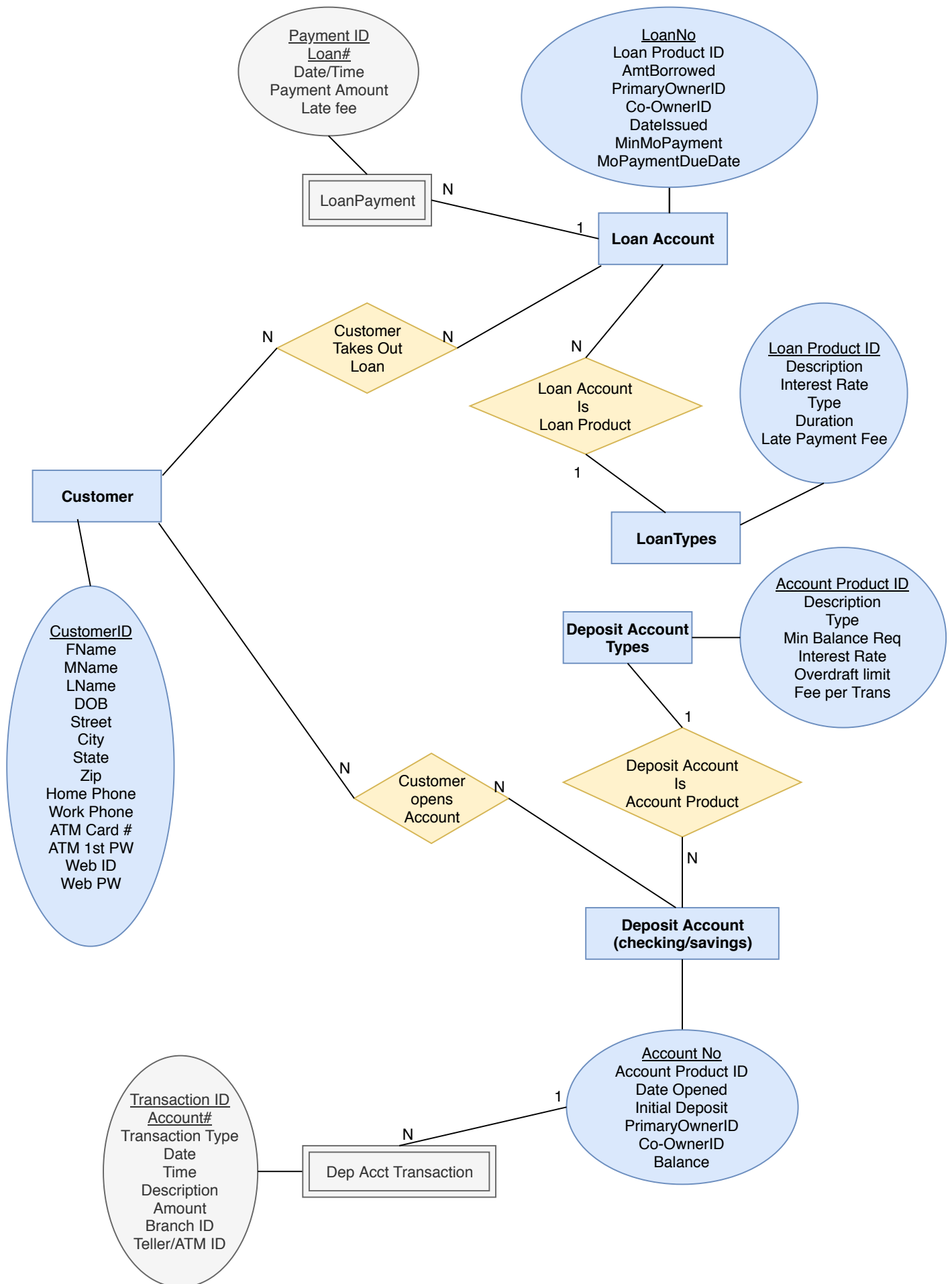
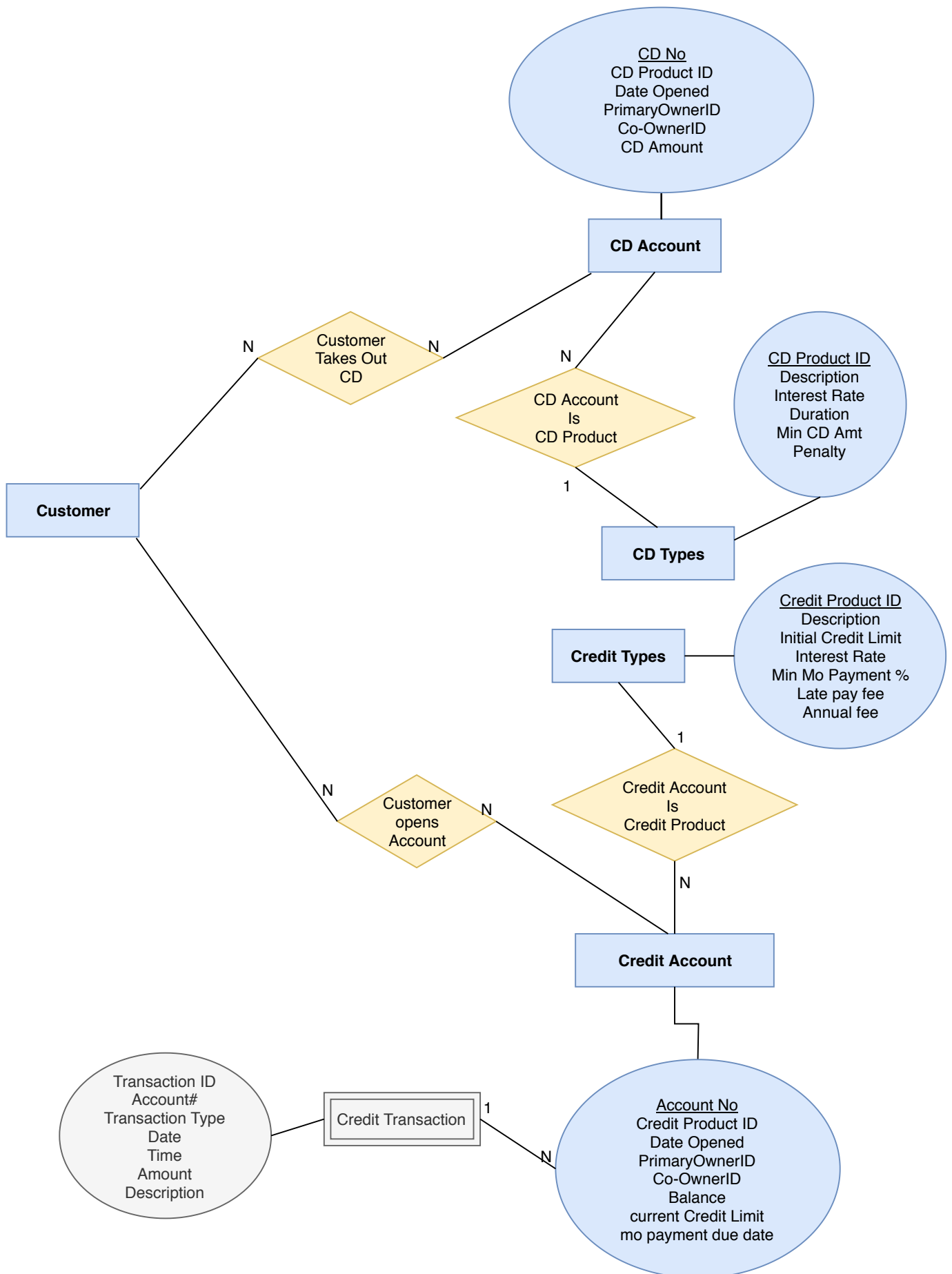


## CHAPTER 2: ER DIAGRAM









## CHAPTER 5: ORACLE TABLES

BRANCH			DEPARTMENT		
Name	Null?	Type	Name	Null?	Type
BRANCHID	NOT NULL	NUMBER(4)	DEPTNAME	NOT NULL	CHAR(10)
NAME	NOT NULL	VARCHAR2(25)	BRANCHID	NOT NULL	NUMBER(4)
PHONE		CHAR(10)	PHONEEXT		CHAR(4)
STREET		VARCHAR2(30)			
CITY		VARCHAR2(25)			
STATE		VARCHAR2(2)			
ZIP		VARCHAR2(10)			
TELLERWINDOW		CHAR(1)			
CATEGORY		NUMBER(1)			
URL	NOT NULL	VARCHAR2(50)			

CAR			DRIVER		
Name	Null?	Type	Name	Null?	Type
DEPTNAME	NOT NULL	CHAR(10)	EMPID	NOT NULL	NUMBER(10)
BRANCHID	NOT NULL	NUMBER(4)	LICENSENO	NOT NULL	VARCHAR2(20)
PHONEEXT		CHAR(4)	STATEOFISSUE	NOT NULL	CHAR(2)
EXPDATE		DATE			
CARID	NOT NULL	NUMBER(5)			
BRANCHID		NUMBER(4)			
VIN	NOT NULL	CHAR(17)			
MAKE		VARCHAR2(15)			
MODEL		VARCHAR2(15)			
YEAR		NUMBER(4)			
COLOR		VARCHAR2(12)			
PLATENO		VARCHAR2(10)			
PURCHDATE		DATE			
PURCHPRICE		NUMBER(6)			
BRANHASSIGNDATE		DATE			

CUSTOMER			BANK_EMPLOYEE		
Name	Null?	Type	Name	Null?	Type
-----	-----	-----	-----	-----	-----
CUSTID	NOT NULL	NUMBER(10)	EMPID	NOT NULL	NUMBER(10)
SSN		CHAR(9)	SSN	NOT NULL	CHAR(9)
FNAME	NOT NULL	VARCHAR2(20)	FNAME	NOT NULL	VARCHAR2(20)
MNAME		VARCHAR2(20)	MNAME		VARCHAR2(20)
LNAME	NOT NULL	VARCHAR2(25)	LNAME	NOT NULL	VARCHAR2(25)
DOB	NOT NULL	DATE	STREET	NOT NULL	VARCHAR2(30)
STREET		VARCHAR2(30)	CITY	NOT NULL	VARCHAR2(25)
CITY		VARCHAR2(25)	STATE	NOT NULL	VARCHAR2(2)
STATE		VARCHAR2(2)	ZIP	NOT NULL	VARCHAR2(10)
ZIP		VARCHAR2(10)	HOMEPHONE		CHAR(10)
HOMEPHONE		CHAR(10)	EMAIL		VARCHAR2(320)
WORKPHONE		CHAR(10)	GENDER		CHAR(1)
ATMNO		CHAR(10)	RACE		CHAR(2)
ATMPW		VARCHAR2(30)	DOB	NOT NULL	DATE
WEBID		VARCHAR2(20)	SPOUSEFNAME		VARCHAR2(20)
WEBPW		VARCHAR2(30)	SPOUSELNAME		VARCHAR2(20)
			DEGREE		VARCHAR2(4)
			DEGREEDATE		DATE
			HIREDATE	NOT NULL	DATE
			JOBTITLE	NOT NULL	VARCHAR2(20)
			STAFFMANAGER		NUMBER(10)
JOB			EMP_ANNUAL_DATA		
Name	Null?	Type	Name	Null?	Type
-----	-----	-----	-----	-----	-----
JOBTITLE	NOT NULL	VARCHAR2(20)	EMPID	NOT NULL	NUMBER(10)
MINDEGREE		VARCHAR2(5)	YEAR	NOT NULL	CHAR(4)
MINSALARY		NUMBER(10)	SALARY		NUMBER(7)
			EVALUATION		NUMBER(2)
			TAXDEDUCTION		NUMBER(2)
BRANCH_EMPLOYEE			ATM		
Name	Null?	Type	Name	Null?	Type
-----	-----	-----	-----	-----	-----
EMPID	NOT NULL	NUMBER(10)	ATMID	NOT NULL	NUMBER(10)
BRANCHID	NOT NULL	NUMBER(4)	PURCHDATE		DATE
BRANCHSTARTDATE		DATE	PURCHPRICE		NUMBER(6)
PHONEEXT		CHAR(4)			
BRANCH_ACCESS_POINTS			BRANCH_MANAGER		
Name	Null?	Type	Name	Null?	Type
-----	-----	-----	-----	-----	-----
ACCESSPOINTID	NOT NULL	CHAR(7)	BRANCHID	NOT NULL	NUMBER(4)
BRANCHID	NOT NULL	NUMBER(4)	EMPID		NUMBER
TELLEREMPID		NUMBER(10)	ASSIGNDATE		DATE
ATMID		NUMBER(10)			

LOAN			LOAN_PRODUCT		
Name	Null?	Type	Name	Null?	Type
LOANNO	NOT NULL	CHAR(10)	LOANPRODID	NOT NULL	VARCHAR2(10)
LOANPRODID	NOT NULL	VARCHAR2(10)	DESCRIP		VARCHAR2(50)
AMTBORROWED	NOT NULL	NUMBER(8)	INTRATE	NOT NULL	NUMBER(5,2)
PRIMARY		NUMBER	TYPE	NOT NULL	CHAR(1)
COOWNER		NUMBER	DURATION	NOT NULL	NUMBER(3)
DATEISSUED		DATE	LATEPAYFEE		NUMBER(38,2)
MINMOPAY	NOT NULL	NUMBER(6,2)	CATEGORY		VARCHAR2(10)
MOPAYDUE DAY	NOT NULL	NUMBER(2)			

DEPOSIT_ACCT			DEPOSIT_ACCT_PRODUCT		
Name	Null?	Type	Name	Null?	Type
ACCTNO	NOT NULL	CHAR(10)	ACCTPRODID	NOT NULL	VARCHAR2(10)
ACCTPRODID	NOT NULL	VARCHAR2(10)	DESCRIP		VARCHAR2(50)
DATEOPENED	NOT NULL	DATE	INTRATE	NOT NULL	NUMBER(5,2)
INITDEPOSIT	NOT NULL	NUMBER(8)	TYPE	NOT NULL	CHAR(1)
PRIMARY	NOT NULL	NUMBER(10)	MINBALREQ		NUMBER(6)
COOWNER		NUMBER(10)	OVERDRAFTLIMIT		NUMBER(6)
BALANCE	NOT NULL	NUMBER(6,2)	TRANSFEE		NUMBER(4,2)

CD_ACCOUNT			CD_PRODUCT		
Name	Null?	Type	Name	Null?	Type
CDNO	NOT NULL	CHAR(10)	CDPRODID	NOT NULL	VARCHAR2(10)
CDPRODID		VARCHAR2(10)	DESCRIP		VARCHAR2(50)
DATEOPENED		DATE	INTRATE	NOT NULL	NUMBER(5,2)
PRIMARY	NOT NULL	NUMBER(10)	DURATION		NUMBER(3)
COOWNER		NUMBER(10)	MINCDAMT	NOT NULL	NUMBER(6)
CDAMT	NOT NULL	NUMBER(6,2)	PENALTYAMT		NUMBER(4,2)

CREDIT_ACCOUNT			CREDIT_PRODUCT		
Name	Null?	Type	Name	Null?	Type
CREDITACCTNO	NOT NULL	CHAR(10)	CREDITPRODID	NOT NULL	VARCHAR2(10)
CREDITPRODID		VARCHAR2(10)	DESCRIP		VARCHAR2(50)
DATEOPENED		DATE	INTRATE	NOT NULL	NUMBER(5,2)
PRIMARY	NOT NULL	NUMBER(10)	INITCREDITLIMIT	NOT NULL	NUMBER(6)
COOWNER		NUMBER(10)	MINMOPAYPERCENT		NUMBER(3)
BALANCE	NOT NULL	NUMBER(8,2)	LATEFEE		NUMBER(4,2)
CURRENTLIMIT	NOT NULL	NUMBER(10)	ANNUALFEE		NUMBER(4,2)
MOPAYDUE DAY	NOT NULL	NUMBER(2)			

LOAN_PAYMENT			DEPOSIT_ACCT_TRANSACTION		
Name	Null?	Type	Name	Null?	Type
-----			-----		
PAYMENTID	NOT NULL	NUMBER(10)	TRANSID	NOT NULL	NUMBER(10)
LOANNO	NOT NULL	CHAR(10)	ACCTNO	NOT NULL	CHAR(10)
TRANSDATETIME	NOT NULL	TIMESTAMP(6)	TRANSTYPE	NOT NULL	VARCHAR2(8)
PAYAMT	NOT NULL	NUMBER(10,2)	TRANSDATETIME	NOT NULL	TIMESTAMP(6)
LATECHARGE		NUMBER(4,2)	AMOUNT	NOT NULL	NUMBER(10,2)
			DESCRIPTION		VARCHAR2(50)
			ACCESSPTID		CHAR(7)
CREDIT_ACCT_TRANSACTION					
Name	Null?	Type			
-----					
TRANSID	NOT NULL	NUMBER(10)			
CREDITACCTNO	NOT NULL	CHAR(10)			
TRANSTYPE	NOT NULL	VARCHAR2(8)			
TRANSDATETIME	NOT NULL	TIMESTAMP(6)			
AMOUNT	NOT NULL	NUMBER(10,2)			
DESCRIPTION		VARCHAR2(50)			