

Information Engineering

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Task 1

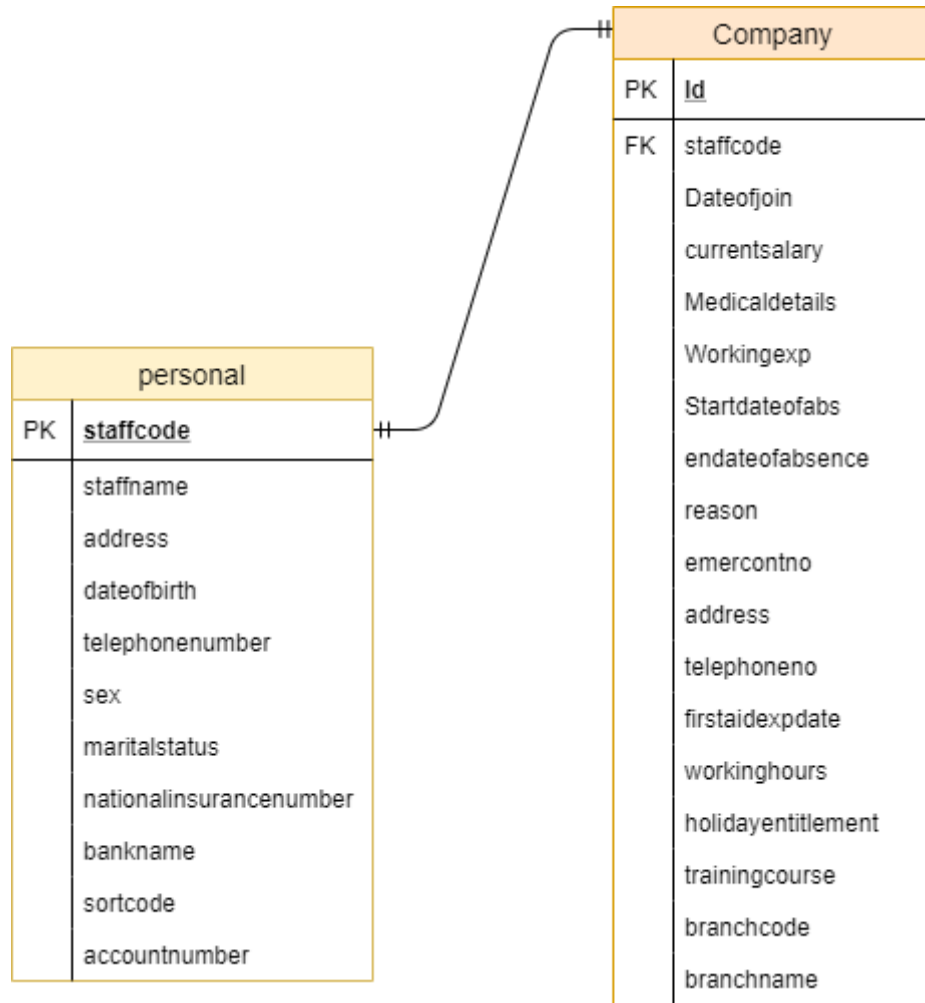


Figure: Entity-Relationship diagram

(Source: Created by Cristian Biza)

Task 2

Queries, Reports, Forms

```
Run SQL Command Line
SQL*Plus: Release 10.2.0.1.0 - Production on Mon Apr 27 11:23:01 2020
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SQL> connect
Enter user-name: system
Enter password:
connected.
SQL> create table staff_personaldata( Staffname varchar(50), address varchar(50),dateofbirth date, telephonenumber number(20), sex varchar(10),staffcode number(5), maritalstatus varchar(10), NationalInsuranceNumber number(10), Title varchar(10), Bankname varchar(50), sortcode varchar(20), accountnumber number(20));
Table created.

SQL> alter table staff_personaldata add primary key(staffcode);
Table altered.

SQL> desc staff_personaldata;
SP2-0565: Illegal identifier.
SQL> desc table staff_personaldata;
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc table staff_personaldata;
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc staff_personaldata;
Name Null? Type
-----
STAFFNAME VARCHAR2(50)
ADDRESS VARCHAR2(50)
DATEOFBIRTH DATE
TELEPHONENUMBER NUMBER(20)
SEX VARCHAR2(10)
STAFFCODE NOT NULL NUMBER(5)
MARITALSTATUS VARCHAR2(10)
NATIONALINSURANCENUMBER NUMBER(10)
TITLE VARCHAR2(10)
BANKNAME VARCHAR2(50)
SORTCODE VARCHAR2(20)
ACCOUNTNUMBER NUMBER(20)

SQL> create table staff_companydata (staffcode number(5), dateofjoin date, currentsalary number(10), medicaldetails varchar(100),workingexp varchar(50),startdateofabs date, enddateofabsence date,reason varchar(100),emercontno number(20), address varchar(50), telephone no number(20), firstaidexpdate date, workinghours number(5), holidayentitlement number(10), trainingcourse varchar(50), branchcode varchar(20), branchname varchar(50));
create table staff_companydata (staffcode number(5), dateofjoin date, currentsalary number(10), medicaldetails varchar(100),workingexp varchar(50),startdateofabs date, enddateofabsence date,reason varchar(100),emercontno number(20), address varchar(50), telephone no number(20), firstaidexpdate date, workinghours number(5), holidayentitlement number(10), trainingcourse varchar(50), branchcode varchar(20), branchname varchar(50));
Table created.

SQL> desc staff_companydata;
Name Null? Type
-----
STAFFCODE NUMBER(5)
DATEOFJOIN DATE
CURRENTSALARY NUMBER(10)
MEDICALDETAILS VARCHAR2(100)
WORKINGEXP VARCHAR2(50)
STARTDATEOFABS DATE
ENDDATEOFABSENCE DATE
REASON VARCHAR2(100)
EMERCONTNO NUMBER(20)
ADDRESS VARCHAR2(50)
TELEPHONENO NUMBER(20)
FIRSTAIDEXPDATE DATE
WORKINGHOURS NUMBER(5)
HOLIDAYENTITLEMENT NUMBER(10)
TRAININGCOURSE VARCHAR2(50)
BRANCHCODE VARCHAR2(20)
BRANCHNAME VARCHAR2(50)
```

```
Run SQL Command Line
TRAININGCOURSE          VARCHAR2(50)
BRANCHCODE              VARCHAR2(20)
BRANCHNAME              VARCHAR2(50)

SQL> insert into staff_personaldata values('Elena', 'Sydney',to_date('16/11/94', 'dd/mm/yy'), 9097181010, 'Female', 134, 'Married', 110128007,'Staff', 'HSBC','HSBC908902', 558907818191);
insert into staff_personaldata values('Elena', 'Sydney',to_date('16/11/94', 'dd/mm/yy'), 9097181010, 'Female', 134, 'Married', 110128007,'Staff', 'HSBC','HSBC908902', 558907818191)
*
ERROR at line 1:
ORA-00001: unique constraint (SYSTEM.SYS_C004492) violated

SQL> delete from staff_personaldata where staffcode=134;

1 row deleted.

SQL> insert into staff_personaldata values('Elena', 'Sydney',to_date('16/11/94', 'dd/mm/yy'), 9097181010, 'Female', 134, 'Married', 110128007,'Staff', 'HSBC','HSBC908902', 558907818191);

1 row created.

SQL> insert into staff_personaldata values('Allen', 'Paris',to_date('11/12/95', 'dd/mm/yy'), 7890122110, 'Male', 123, 'Married', 109011007,'Staff', 'DBS','DBS118612', 456791456543);

1 row created.

SQL> insert into staff_personaldata values('Patrick', 'Amsterdam',to_date('10/11/96', 'dd/mm/yy'), 8909767821, 'Male', 110, 'Single', 119034521,'Staff', 'RBS','RBS7812345', 6789098745642134);

1 row created.

SQL> select * from staff_personaldata;

STAFFNAME
-----
ADDRESS                                DATEOFBIR  TELEPHONENUMBER
-----
SEX      STAFFCODE  MARITALSTA NATIONALINSURANCENUMBER TITLE
-----
BANKNAME                                SORTCODE
-----
ACCOUNTNUMBER
-----
Elena
Sydney
Female      134 Married      16-NOV-94      9097181010
110128007 Staff

STAFFNAME
-----
ADDRESS                                DATEOFBIR  TELEPHONENUMBER
-----
SEX      STAFFCODE  MARITALSTA NATIONALINSURANCENUMBER TITLE
-----
BANKNAME                                SORTCODE
-----
ACCOUNTNUMBER
-----
HSBC
5.5891E+11      HSBC908902

STAFFNAME
-----
ADDRESS                                DATEOFBIR  TELEPHONENUMBER
-----
SEX      STAFFCODE  MARITALSTA NATIONALINSURANCENUMBER TITLE
-----
BANKNAME                                SORTCODE
-----
ACCOUNTNUMBER
-----
Allen
Paris
Male      123 Married      11-DEC-95      7890122110
109011007 Staff

STAFFNAME
-----
```

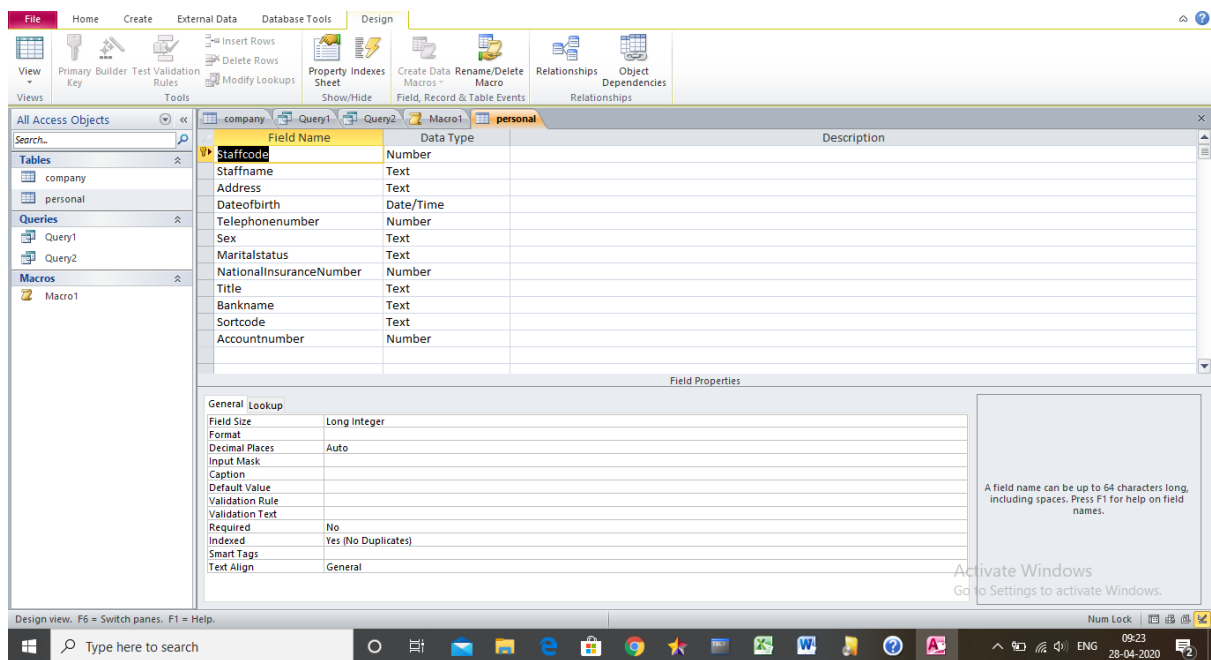
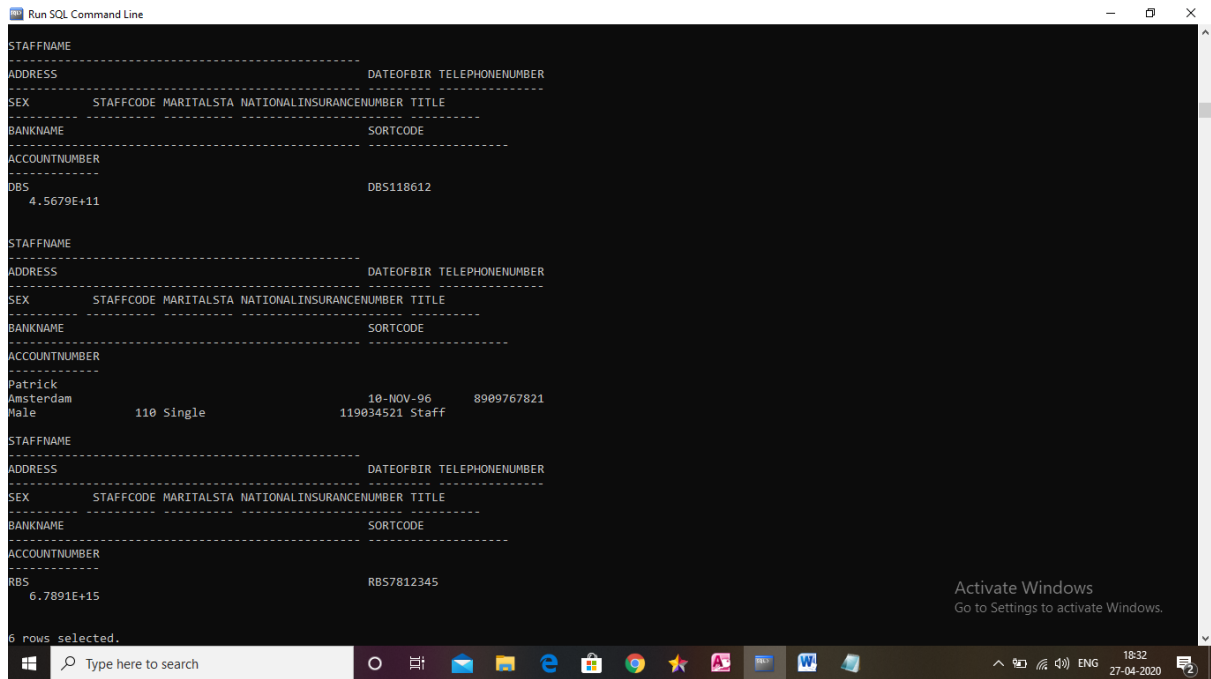
```
Run SQL Command Line

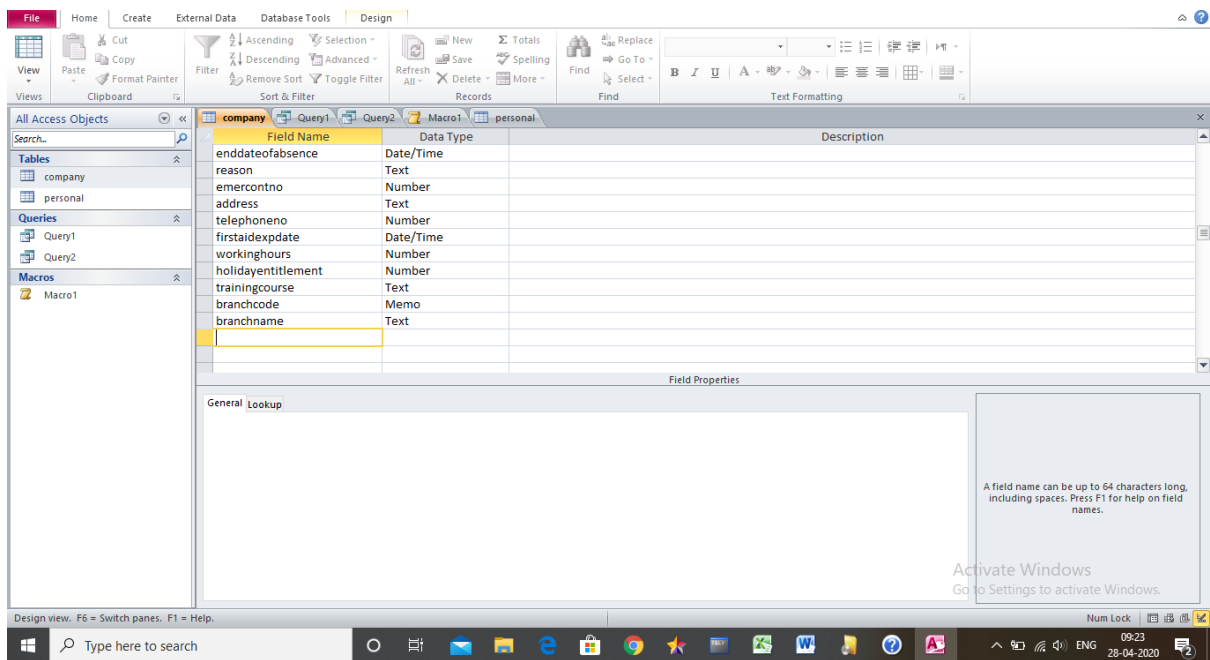
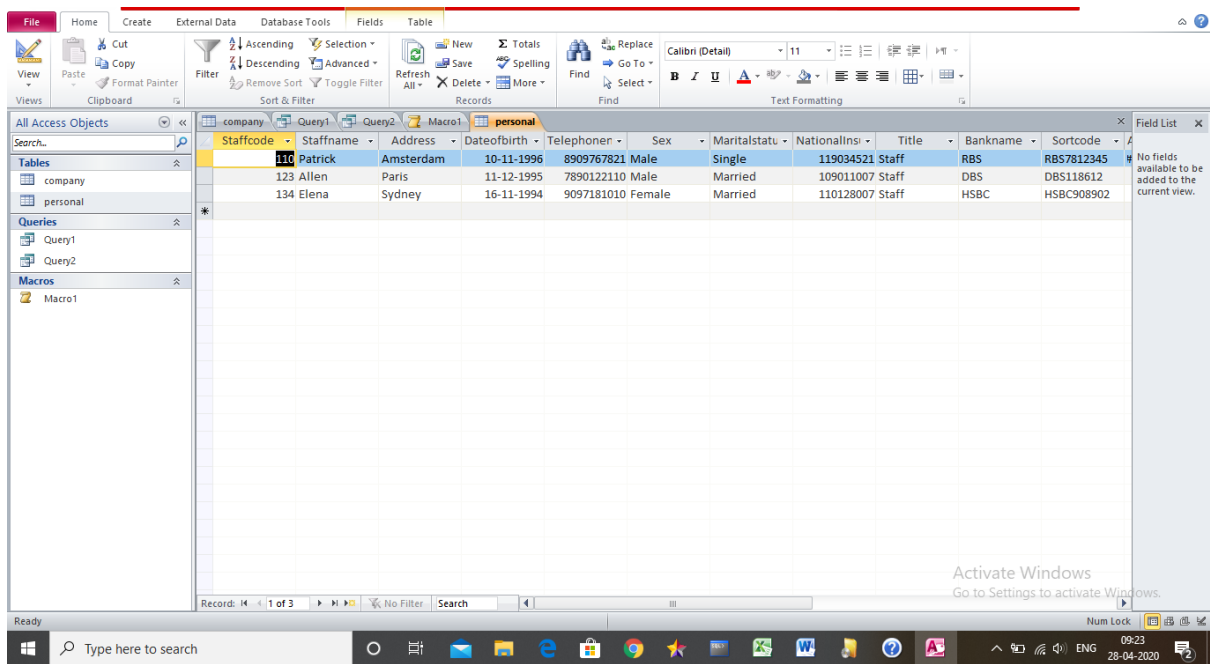
STAFFNAME
-----
ADDRESS                                DATEOFBIR  TELEPHONENUMBER
-----
SEX      STAFFCODE  MARITALSTA NATIONALINSURANCENUMBER TITLE
-----
BANKNAME                                SORTCODE
-----
ACCOUNTNUMBER
-----
Elena
Sydney
Female      134 Married      16-NOV-94      9097181010
110128007 Staff

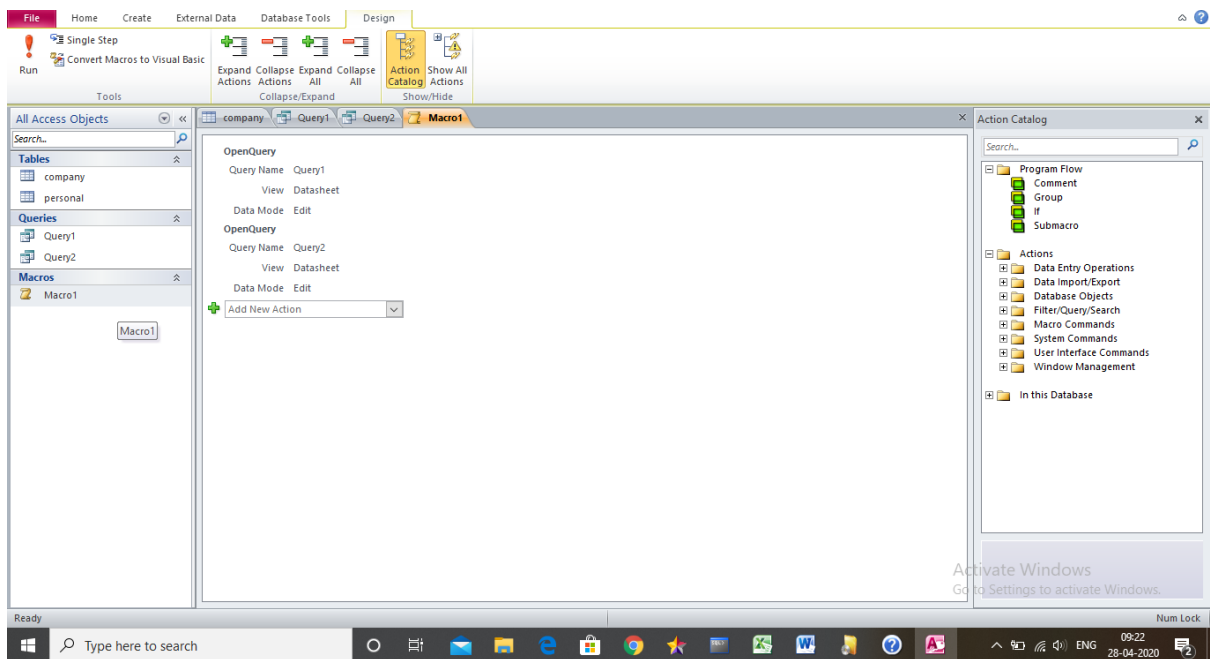
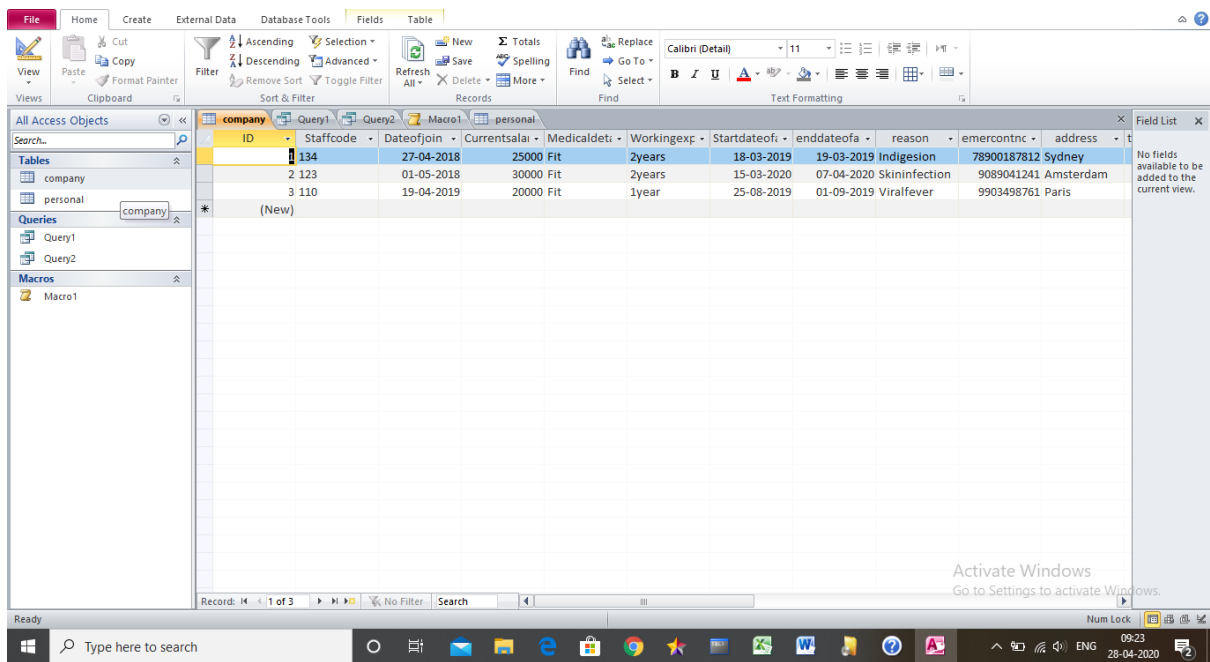
STAFFNAME
-----
ADDRESS                                DATEOFBIR  TELEPHONENUMBER
-----
SEX      STAFFCODE  MARITALSTA NATIONALINSURANCENUMBER TITLE
-----
BANKNAME                                SORTCODE
-----
ACCOUNTNUMBER
-----
HSBC
5.5891E+11      HSBC908902

STAFFNAME
-----
ADDRESS                                DATEOFBIR  TELEPHONENUMBER
-----
SEX      STAFFCODE  MARITALSTA NATIONALINSURANCENUMBER TITLE
-----
BANKNAME                                SORTCODE
-----
ACCOUNTNUMBER
-----
Allen
Paris
Male      123 Married      11-DEC-95      7890122110
109011007 Staff

STAFFNAME
-----
```







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All Access Objects Search...

Tables company personal

Queries Query1 Query2

Macros Macro1

Staffcode	Staffname	ID	branchcode	branchname
134	Elena	1	C113	swimmingpool
123	Allen	1	C113	swimmingpool
110	Patrick	1	C113	swimmingpool
134	Elena	2	C112	fitnessinstruct
123	Allen	2	C112	fitnessinstruct
110	Patrick	2	C112	fitnessinstruct
134	Elena	3	C111	Noncasualstaf
123	Allen	3	C111	Noncasualstaf
110	Patrick	3	C111	Noncasualstaf

Record: 14 of 9 No Filter Search

Datasheet View

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All Access Objects Search...

Tables company personal

Queries Query1 Query2

Forms Query2

Macros Macro1

Query2

Staffcode 134

Staffname Elena

ID 1

branchcode C113

branchname swimmingpoolattendant

Record: 14 of 9 No Filter Search

Form View

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