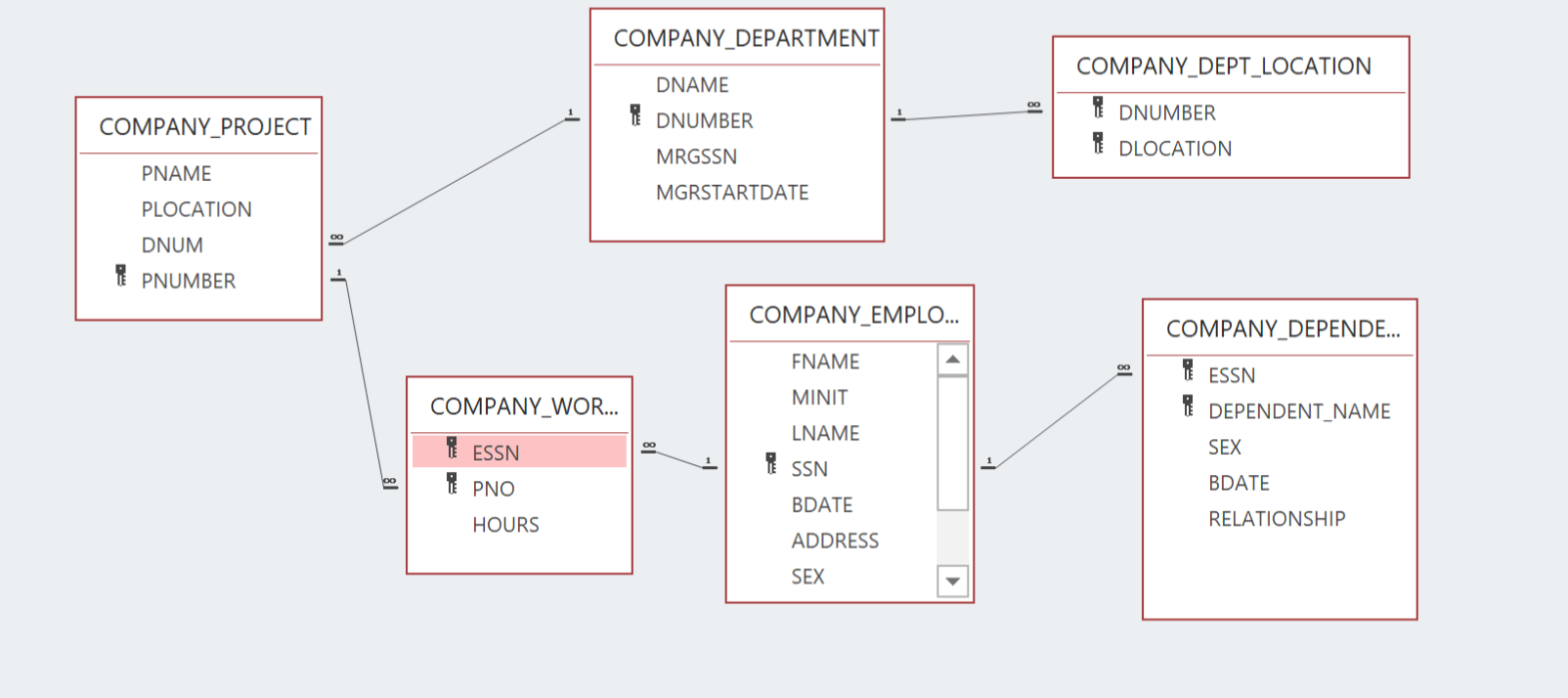
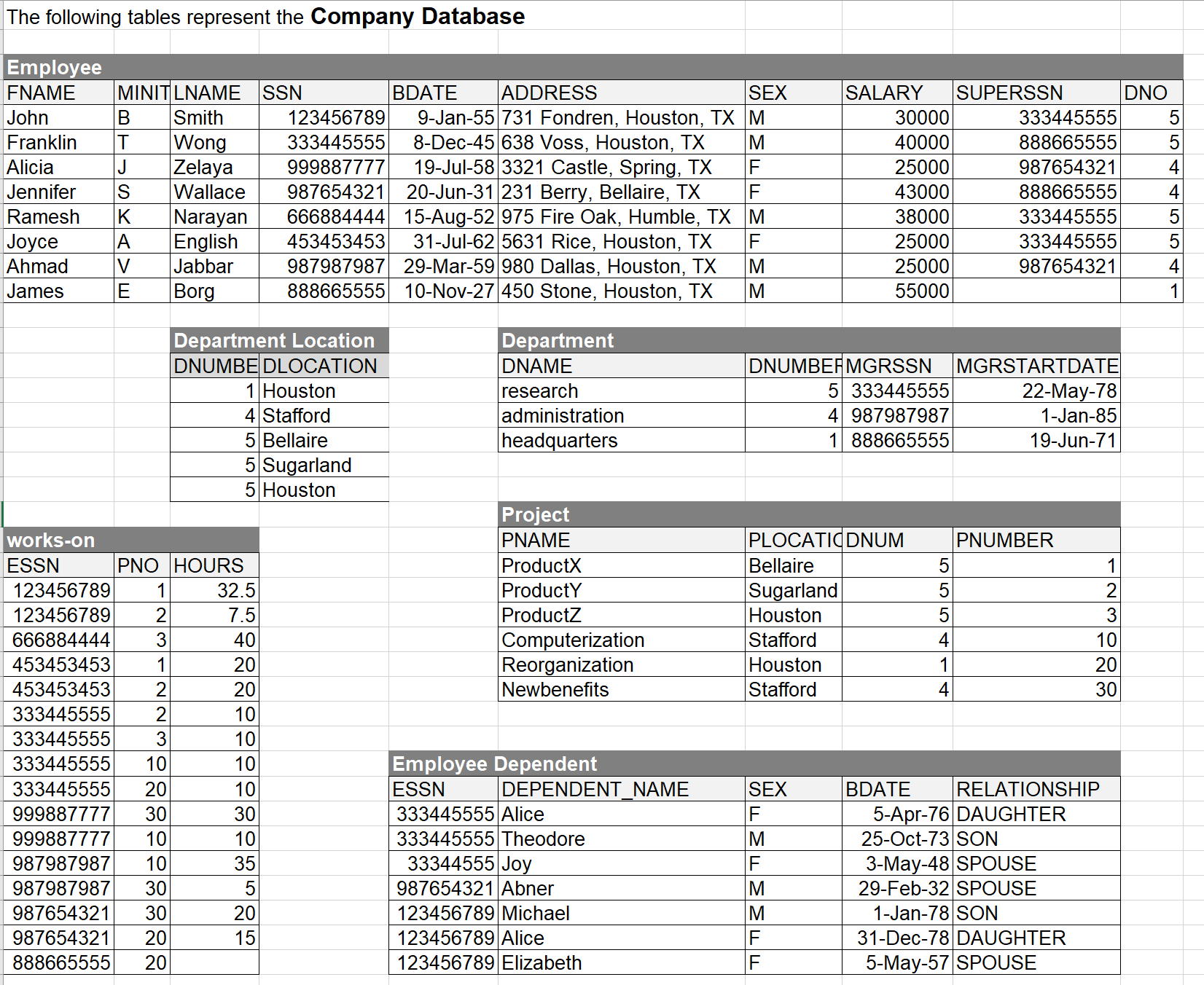
Developing Insert statement to complete Company DB Script

In the following, Company data model, Create table script (INSERT statement is not included), data for every table is in different worksheet in Company DB spreadsheet.

Your task is to create INSERT statement and append it to the end of CREATE TABLE c=script (section 5). Make sure your script works before submitting it

Data Model for Company database





**-- This script creates and populates the Company database in Oracle DBMS**

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-- 1. Drop tables

DROP TABLE DEPARTMENT cascade constraint;

DROP TABLE EMPLOYEE cascade constraint;

DROP TABLE DEPENDENT cascade constraint;

DROP TABLE DEPT\_LOCATIONS cascade constraint;

DROP TABLE PROJECT cascade constraint;

DROP TABLE WORKS\_ON cascade constraint;

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-- 2. Create tables with PK and FK

CREATE TABLE DEPARTMENT(

DNUMBER NUMBER(2) NOT NULL,

DNAME VARCHAR(50) NOT NULL,

MGRSSN NUMBER(9)NOT NULL,

MGRSTARTDATE DATE NOT NULL,

CONSTRAINT DEPT\_DNUM\_PK PRIMARY KEY (DNUMBER));

CREATE TABLE EMPLOYEE(

SSN NUMBER (9) NOT NULL,

FNAME VARCHAR(25) NOT NULL,

MINIT VARCHAR(1),

LNAME VARCHAR(25) NOT NULL,

BDATE DATE NOT NULL,

ADDRESS VARCHAR(150) NOT NULL,

SEX VARCHAR(1) NOT NULL,

SALARY FLOAT,

SUPERSSN NUMBER(9),

DNO NUMBER(2) NOT NULL,

CONSTRAINT EMP\_SSN\_PK PRIMARY KEY(SSN),

CONSTRAINT EMP\_DNO\_FK FOREIGN KEY (DNO) REFERENCES DEPARTMENT(DNUMBER));

CREATE TABLE DEPENDENT(

ESSN NUMBER(9) NOT NULL,

DEPENDENT\_NAME VARCHAR(50) NOT NULL,

SEX VARCHAR(1) NOT NULL,

BDATE DATE NOT NULL,

RELATIONSHIP VARCHAR(15) NOT NULL,

CONSTRAINT DEP\_ESSN\_NAME\_PK PRIMARY KEY(ESSN, DEPENDENT\_NAME),

CONSTRAINT DEP\_ESSN\_FK FOREIGN KEY (ESSN) REFERENCES EMPLOYEE(SSN));

CREATE TABLE DEPT\_LOCATIONS(

DNUMBER NUMBER(2) NOT NULL,

DLOCATION VARCHAR(50) NOT NULL,

CONSTRAINT DEPTLOC\_DNUM\_DLOC\_PK PRIMARY KEY(DNUMBER, DLOCATION),

CONSTRAINT DEPTLOC\_DNUM\_FK FOREIGN KEY (DNUMBER) REFERENCES DEPARTMENT(DNUMBER));

CREATE TABLE PROJECT(

PNUMBER NUMBER(3) NOT NULL,

PNAME VARCHAR(25) NOT NULL,

PLOCATION VARCHAR(50),

DNUM NUMBER(2) NOT NULL,

CONSTRAINT PROJ\_PNUM\_PK PRIMARY KEY (PNUMBER) ,

CONSTRAINT PROJ\_DNUM\_FK FOREIGN KEY (DNUM) REFERENCES DEPARTMENT(DNUMBER));

CREATE TABLE WORKS\_ON(

ESSN NUMBER(9) NOT NULL,

PNO NUMBER(3) NOT NULL,

DNUM FLOAT,

CONSTRAINT WRK\_ESSN\_PNO\_PK PRIMARY KEY (ESSN, PNO),

CONSTRAINT WRK\_ESSN\_FK FOREIGN KEY (ESSN) REFERENCES EMPLOYEE(SSN),

CONSTRAINT WRK\_PNO\_FK FOREIGN KEY (PNO) REFERENCES PROJECT(PNUMBER));

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-- 3. Create indexes

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-- 3.1. Drop indexes

DROP INDEX DEPTLOC\_DNUM\_IDX;

DROP INDEX PROJ\_DNUM\_IDX;

DROP INDEX EMP\_DNO\_IDX;

DROP INDEX DEP\_ESSN\_IDX;

DROP INDEX WRK\_ESSN\_IDX;

DROP INDEX WRK\_PNO\_IDX;

-- 3.2. Create indexes

CREATE INDEX DEPTLOC\_DNUM\_IDX ON DEPT\_LOCATIONS(DNUMBER);

CREATE INDEX PROJ\_DNUM\_IDX ON PROJECT(DNUM);

CREATE INDEX EMP\_DNO\_IDX ON EMPLOYEE(DNO);

CREATE INDEX DEP\_ESSN\_IDX ON DEPENDENT(ESSN);

CREATE INDEX WRK\_ESSN\_IDX ON WORKS\_ON(ESSN);

CREATE INDEX WRK\_PNO\_IDX ON WORKS\_ON(PNO);

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-- 4. grant privileges

grant select on DEPARTMENT to public;

grant select on EMPLOYEE to public;

grant select on DEPENDENT to public;

grant select on DEPT\_LOCATIONS to public;

grant select on PROJECT to public;

grant select on WORKS\_ON to public;

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-- 5. Insert values to SPJ's tables