ΒΑΣΕΙΣ ΔΕΔΟΜΕΝΩΝ
ΕΡΓΑΣΙΑ ΕΞΑΜΗΝΟΥ 2ο ΠΑΡΑΔΟΤΕΟ
Θέμα : Διαχείριση Νοσοκομείου
ΜΕΛΗ ΟΜΑΔΑΣ :
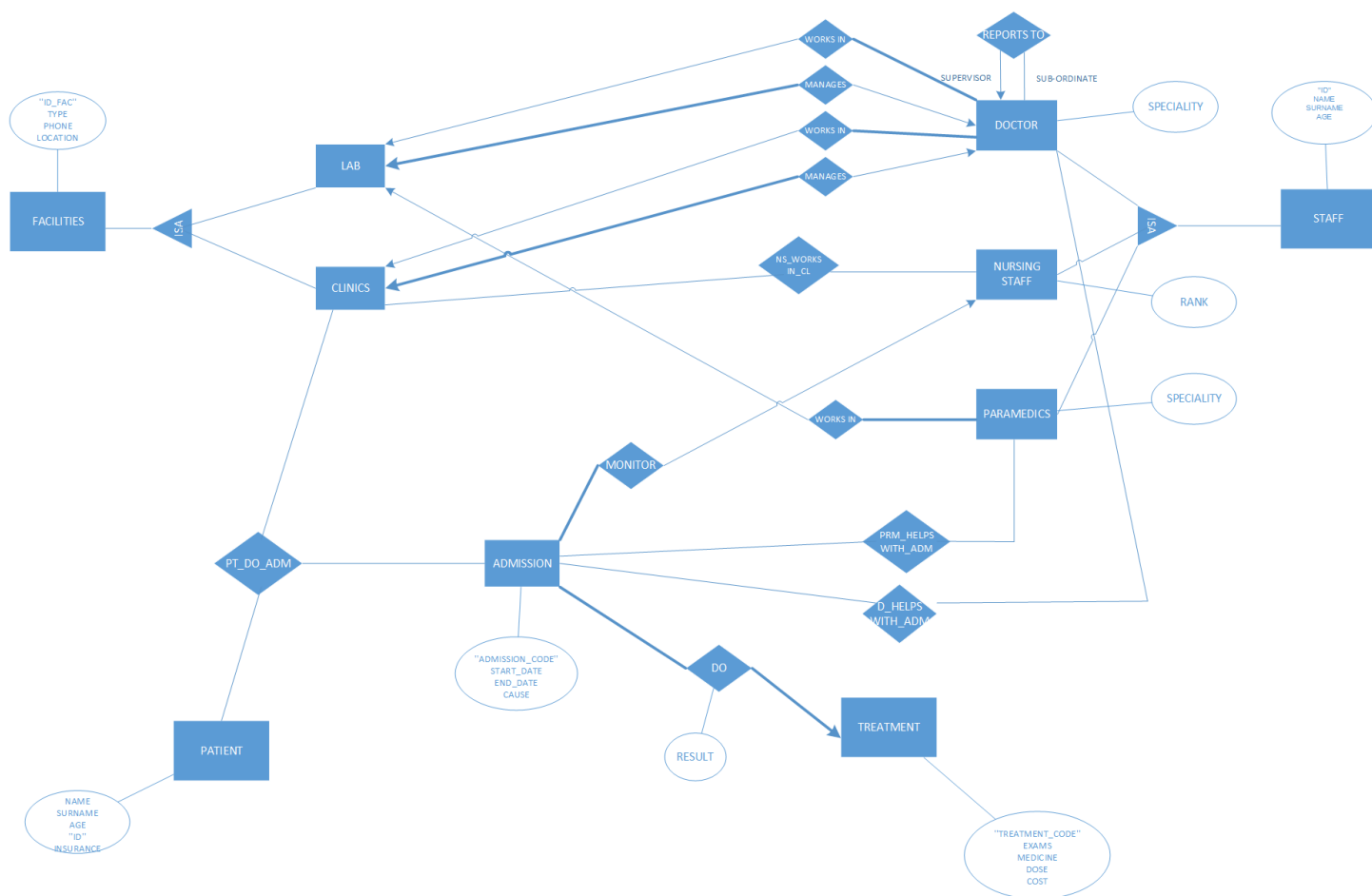ΓΡΗΓΟΡΙΑΔΟΥ ΣΕΒΑΣΤΗ 1313   ΚΑΔΡΕΒΗ ΜΑΡΙΑ-ΕΛΕΝΗ 1427
ΘΕΟΔΩΡΟΥ ΔΗΜΗΤΡΙΟΣ 1331   ΜΑΡΑΓΚΟΣ ΓΕΩΡΓΙΟΣ 1358

ΕΡΩΤΗΜΑ 1

Έγιναν κάποιες αλλαγές στα ονόματα κάποιων συσχετίσεων :

ΕΡΩΤΗΜΑ 2

Σχεσιακό διάγραμμα :

FACILITIES (ID_FAC , TYPE , PHONE , LOCATION)

LAB (ID_FAC , ID$_{MNG}$)

CLINICS (ID_FAC , ID$_{MNG}$)

NS_WORKS_IN_CL (ID_FAC , ID)

STAFF (ID , NAME , SURNAME , AGE)

DOCTOR (ID , SPECIALITY, ID_FAC$_{WORKS\_IN}$)

D_HELPS_WITH_ADM (ADMISSION_CODE , ID)

NURSING STAFF (ID , RANK)

PARAMEDICS (ID , SPECIALITY, ID_FAC$_{WORKS\_IN}$)

PRM_HELPS_WITH_ADM (ADMISSION_CODE , ID)

ADMISSION (ADMISSION_CODE , START_DATE , END_DATE , CAUSE , ID$_{MONITOR}$, TREATMENT_CODE ,RESULT)

PATIENT (ID , NAME , SURNAME , AGE, INSURANCE)

PT_DO_ADM (ID , ID_FAC , ADMISSION_CODE)

TREATMENT (TREATMENT_CODE , EXAMS , MEDICINE , DOSE , COST)

REPORTS_TO (ID$_{SUP}$, ID$_{SUB-0RD}$)

ΕΡΩΤΗΜΑ 3

Εντολές για την δημιουργία πινακων:

```
CREATE TABLE FACILITIES
    (
  ID_FAC INT NOT NULL AUTO_INCREMENT  ,
  TYPE VARCHAR(30)NOT NULL,
  PHONE VARCHAR(30) NOT NULL,
  LOCATION VARCHAR(30) NOT NULL,
  PRIMARY KEY(ID_FAC)
  );

  CREATE TABLE LAB
  (
  ID_LB INT NOT NULL  ,
  ID_MNG  VARCHAR(30) NOT NULL,
  PRIMARY KEY(ID_LB),
  FOREIGN KEY (ID_LB) REFERENCES FACILITIES(ID_FAC),
  FOREIGN KEY (ID_MNG) REFERENCES DOCTOR(ID_D)
  );

  CREATE TABLE CLINICS
  (
  ID_CL INT NOT NULL,
  ID_MNG2  VARCHAR(30) NOT NULL,
  PRIMARY KEY(ID_CL),
  FOREIGN KEY (ID_CL) REFERENCES FACILITIES(ID_FAC),
  FOREIGN KEY (ID_MNG2) REFERENCES DOCTOR(ID_D)
  );

  CREATE TABLE STAFF
    (
  ID VARCHAR(30) NOT NULL ,
  NAME VARCHAR(30)NOT NULL,
  SURNAME VARCHAR(30) NOT NULL,
  AGE INT NOT NULL,
  PRIMARY KEY(ID)
  );

  CREATE TABLE DOCTOR
  (
  ID_D VARCHAR(30) NOT NULL,
  SPECIALITY VARCHAR(30) NOT NULL,
  ID_F_WRK INT NOT NULL,
  PRIMARY KEY(ID_D),
  FOREIGN KEY (ID_D) REFERENCES STAFF(ID),
  FOREIGN KEY (ID_F_WRK) REFERENCES FACILITIES(ID_FAC)
  );

  CREATE TABLE NURSING_STAFF
```

```sql
(
ID_NS VARCHAR(30) NOT NULL,
RANK VARCHAR(30) NOT NULL,
PRIMARY KEY(ID_NS),
FOREIGN KEY (ID_NS) REFERENCES STAFF(ID)
);

CREATE TABLE PARAMEDICS
(
ID_P VARCHAR(30) NOT NULL,
SPECIALITY VARCHAR(30) NOT NULL,
ID_F_WRK2 INT NOT NULL,
PRIMARY KEY(ID_P),
FOREIGN KEY (ID_P) REFERENCES STAFF(ID),
FOREIGN KEY (ID_F_WRK2) REFERENCES LAB(ID_LB)
);

CREATE TABLE ADMISSION
(
ADMISSION_CODE INT NOT NULL AUTO_INCREMENT  ,
CAUSE VARCHAR(30) NOT NULL,
START_DATE DATE NOT NULL,
END_DATE DATE NOT NULL,
ID_MNT VARCHAR(30) NOT NULL,
TRT_C VARCHAR(30) NOT NULL,
PRIMARY KEY(ADMISSION_CODE),
FOREIGN KEY (ID_MNT) REFERENCES NURSING_STAFF(ID_NS),
FOREIGN KEY (TRT_C) REFERENCES TREATMENT(TREATMENT_CODE)

);
CREATE TABLE PATIENT
(
ID VARCHAR(30) NOT NULL  ,
NAME VARCHAR(30) NOT NULL,
SURNAME VARCHAR(30) NOT NULL,
AGE INT NOT NULL,
INSURANCE VARCHAR(30) NOT NULL,
PRIMARY KEY(ID)

);

CREATE TABLE TREATMENT
    (
TREATMENT_CODE VARCHAR(30) NOT NULL,
EXAMS VARCHAR(30)NOT NULL,
MEDICINE VARCHAR(30) NOT NULL,
DOSE VARCHAR(30) NOT NULL,
COST DOUBLE NOT NULL,
PRIMARY KEY(TREATMENT_CODE)
);
```

```sql
CREATE TABLE NS_WORKS_IN_CL
    (
ID1 INT NOT NULL,
ID_N VARCHAR(30) NOT NULL,
FOREIGN KEY (ID1) REFERENCES CLINICS(ID_CL),
FOREIGN KEY (ID_N) REFERENCES NURSING_STAFF(ID_NS),
PRIMARY KEY(ID1,ID_N)
);

CREATE TABLE D_HELPS_WITH_ADM
    (
ID_ADM INT NOT NULL  ,
ID_S_D VARCHAR(30) NOT NULL,
FOREIGN KEY (ID_ADM) REFERENCES ADMISSION(ADMISSION_CODE),
FOREIGN KEY (ID_S_D) REFERENCES DOCTOR(ID_D),
PRIMARY KEY(ID_ADM,ID_S_D)
);

CREATE TABLE PRM_HELPS_WITH_ADM
    (
ID_ADM2 INT NOT NULL ,
ID_S_P VARCHAR(30) NOT NULL,
FOREIGN KEY (ID_ADM2) REFERENCES ADMISSION(ADMISSION_CODE),
FOREIGN KEY (ID_S_P) REFERENCES PARAMEDICS(ID_P),
PRIMARY KEY(ID_ADM2,ID_S_P)
);

CREATE TABLE PT_DO_ADM
    (
ID3 VARCHAR(30) NOT NULL ,
ID_F_C INT NOT NULL,
ID_D_ADM INT NOT NULL   ,
FOREIGN KEY (ID3) REFERENCES PATIENT(ID),
FOREIGN KEY (ID_F_C) REFERENCES CLINICS(ID_CL),
FOREIGN KEY (ID_D_ADM) REFERENCES ADMISSION(ADMISSION_CODE),
PRIMARY KEY(ID_F_C,ID3,ID_D_ADM)
);

CREATE TABLE PRM_HELPS_WITH_ADM
    (
ID_ADM2 INT NOT NULL,
ID_S_P VARCHAR(30) NOT NULL,
FOREIGN KEY (ID_ADM2) REFERENCES ADMISSION(ADMISSION_CODE),
FOREIGN KEY (ID_S_P) REFERENCES PARAMEDICS(ID_P),
PRIMARY KEY(ID_ADM2,ID_S_P)
);

CREATE TABLE REPORTS_T0
    (
ID_SUB_OD VARCHAR(30) NOT NULL ,
ID_SUP VARCHAR(30) NOT NULL,
FOREIGN KEY (ID_SUB_OD) REFERENCES DOCTOR(ID_D),
```

```
    FOREIGN KEY (ID_SUP) REFERENCES DOCTOR(ID_D),
    PRIMARY KEY(ID_SUB_OD)
    );
```

ΕΡΩΤΗΜΑ 4

Τα ξένα κλειδιά εμφανίζονται στις εντολές create του ερωτήματος 3.

ΕΡΩΤΗΜΑ 5

Οι εντολές insert into :
```
INSERT INTO `ADMISSION` (`ADMISSION_CODE`, `CAUSE`, `START_DATE`,
`END_DATE`, `ID_MNT`, `TRT_C`, `RESULT`) VALUES
(1, 'TOOTHACHE', '2020-04-15', '2020-04-15', 'AT000004', '2', 'NONE'),
(2, 'BROKEN ARM', '2020-04-09', '2020-04-10', 'AT000004', '3', 'CAST
NEEDED'),
(3, 'PSYCOLOGICAL CRISIS', '2020-04-01', '2020-04-16', 'AT000004', '1',
'THERAPY NEEDED'),
(4, 'STOMACH ACHE', '2020-04-01', '2020-04-01', 'AT000004', '4', 'VIRUS
ELIMINATED'),
(5, 'ROUTINE TEST', '2020-04-09', '2020-04-09', 'AT000004', '4', 'PERFECT
HEALTH'),
(6, 'FALL', '2020-05-05', '2020-05-05', 'AT000008', '9', 'CAST NEEDED');
|------------------------------------------------------------------------------------|
INSERT INTO `CLINICS` (`ID_CL`, `ID_MNG2`) VALUES
(2, 'AT000001'),
(4, 'AT000002'),
(3, 'AT000003'),
(9, 'AT000007'),
(8, 'AT000009'),
(7, 'AT000010');
|------------------------------------------------------------------------------------|

INSERT INTO `DOCTOR` (`ID_D`, `SPECIALITY`, `ID_F_WRK`) VALUES
('AT000001', 'DENTIST', 1),
('AT000002', 'PSYCOLOGIST', 5),
('AT000003', 'SURGENT', 3),
('AT000006', 'PEDIATRICIAN', 2),
('AT000007', 'EYE DOCTOR', 9),
('AT000009', 'PATHOLOGIST', 4),
('AT000010', 'GYNECOLOGIST', 7);
|------------------------------------------------------------------------------------|

INSERT INTO `FACILITIES` (`ID_FAC`, `TYPE`, `PHONE`, `LOCATION`) VALUES
(1, 'DENTAL CLINIC', '1234567890', 'ATHENS'),
(2, 'KIDS CLINIC', '2345678901', 'KOZANI'),
(3, 'SURGERY CLINIC', '3456789012', 'PATRA'),
(4, 'PATHOLOGICAL CLINIC', '4567890123', 'THESSALONIKI'),
(5, 'PSYSIOLOGICAL CLINIC', '5678901234', 'LARISSA'),
```

```sql
(6, 'CHEMICAL LAB', '6789012345', 'THESSALONIKI'),
(7, 'BIRTH CENTER', '8901234567', 'ATHENS'),
(8, 'PHYSIOTHERAPY CENTER', '9012345678', 'THESSALONIKI'),
(9, 'OPHTHALMOLOGICAL CLINIC', '1123456789', 'THESSALONIKI');


|------------------------------------------------------------------------------------|

INSERT INTO `LAB` (`ID_LB`, `ID_MNG`) VALUES
(6, 'AT000001');
|------------------------------------------------------------------------------------|

INSERT INTO `NS_WORKS_IN_CL` (`ID1`, `ID_N`) VALUES
(2, 'AT000004'),
(3, 'AT000012'),
(4, 'AT000008'),
(9, 'AT000012');
|------------------------------------------------------------------------------------|

INSERT INTO `NURSING_STAFF` (`ID_NS`, `RANK`) VALUES
('AT000004', 'NURSE A'),
('AT000008', 'NURSE B'),
('AT000012', 'NURSE B');
|------------------------------------------------------------------------------------|

INSERT INTO `PARAMEDICS` (`ID_P`, `SPECIALITY`, `ID_F_WRK2`) VALUES
('AT000005', 'CHEMIST', 6),
('AT000011', 'AMBULANCE DRIVER', 6);
|------------------------------------------------------------------------------------|

INSERT INTO `PATIENT` (`ID`, `NAME`, `SURNAME`, `AGE`, `INSURANCE`) VALUES
('AM0000001', 'DIMITRIS', 'THEODOROU', 21, 'IKA'),
('AM000002', 'GEORGE', 'MARAGKOS', 22, 'OGA'),
('AM000003', 'MARILENA ', 'KADREVI', 21, 'IKA'),
('AM000004', 'JOHN', 'RAMSY', 30, 'PUBLIC INS.'),
('AM000005', 'KLEOPATRA ', 'LOYKA', 50, 'PUBLIC INS.'),
('AM000006', 'KAREN', 'JONES', 50, 'IKA');
|------------------------------------------------------------------------------------|

INSERT INTO `PRM_HELPS_WITH_ADM` (`ID_ADM2`, `ID_S_P`) VALUES
(4, 'AT000005'),
(5, 'AT000005');
|------------------------------------------------------------------------------------|

INSERT INTO `PT_DO_ADM` (`ID3`, `ID_F_C`, `ID_D_ADM`) VALUES
('AM000003', 3, 6),
('AM0000001', 4, 5);
|------------------------------------------------------------------------------------|

INSERT INTO `STAFF` (`ID`, `NAME`, `SURNAME`, `AGE`) VALUES
('AT000001', 'JIM', 'PAPAS', 25),
```

```sql
('AT000002', 'GEORGE', 'PAPADOPOULOS', 30),
('AT000003', 'JEAN', 'GREY', 40),
('AT000004', 'JAMES', 'NIKOLOPOULOS', 34),
('AT000005', 'JIM', 'PAPADAKIS', 56),
('AT000006', 'PENELOPY', 'SMITH', 30),
('AT000007', 'SPENCER', 'RID', 34),
('AT000008', 'NIKOLAOS', 'PAPAGEORGIOU', 40),
('AT000009', 'ANTONIS', 'NIKOLAOU', 40),
('AT000010', 'MICHALIS', 'SGOURIS', 30),
('AT000011', 'MARIA', 'GEORGOULI', 27),
('AT000012', 'REA', 'GEORGIOU', 30);
|-------------------------------------------------------------------------------------------|

INSERT INTO `TREATMENT` (`TREATMENT_CODE`, `EXAMS`, `MEDICINE`, `DOSE`,
`COST`) VALUES
('1', 'PSYCOLOGICAL EVALUATION', 'ZANAX 300 mgr', '1 PILL /DAY', 30),
('2', 'EXCTRACTION', 'SALTWATER', '1 GLASS/DAY', 50),
('3', 'X-RAY', 'PANADOL 1000 mgr', '3 PILLS/DAY', 40),
('4', 'BLOODTEST', 'IRON VITAMINS 300 mgr PILLS', '1 PILL/DAY', 30),
('5', 'ULTRASOUND', 'NONE', 'NONE', 60),
('6', 'EYE TEST', 'EYEDROPS', '5 DROPS/EYE', 20),
('7', 'YROLOGICAL TEST', 'VITAMINES', '1 PILL/DAY', 40),
('8', 'STRESS TEST', 'NONE', 'NONE', 50),
('9', 'CAT SCAN', 'NONE', 'NONE', 40);
|-------------------------------------------------------------------------------------------|

INSERT INTO `REPORTS_TO` (`ID_SUB_OD`, `ID_SUP`) VALUES
('AT000010', 'AT000001'),
('AT000001', 'AT000002'),
('AT000003', 'AT000002'),
('AT000002', 'AT000006');
```