



ΤΜΗΜΑ ΗΛΕΚΤΡΟΛΟΓΩΝ ΜΗΧΑΝΙΚΩΝ
& ΜΗΧΑΝΙΚΩΝ ΥΠΟΛΟΓΙΣΤΩΝ
ΠΑΝΕΠΙΣΤΗΜΙΟ ΔΥΤΙΚΗΣ ΜΑΚΕΔΟΝΙΑΣ
ΠΟΛΥΤΕΧΝΙΚΗ ΣΧΟΛΗ

2ο Παραδοτέο

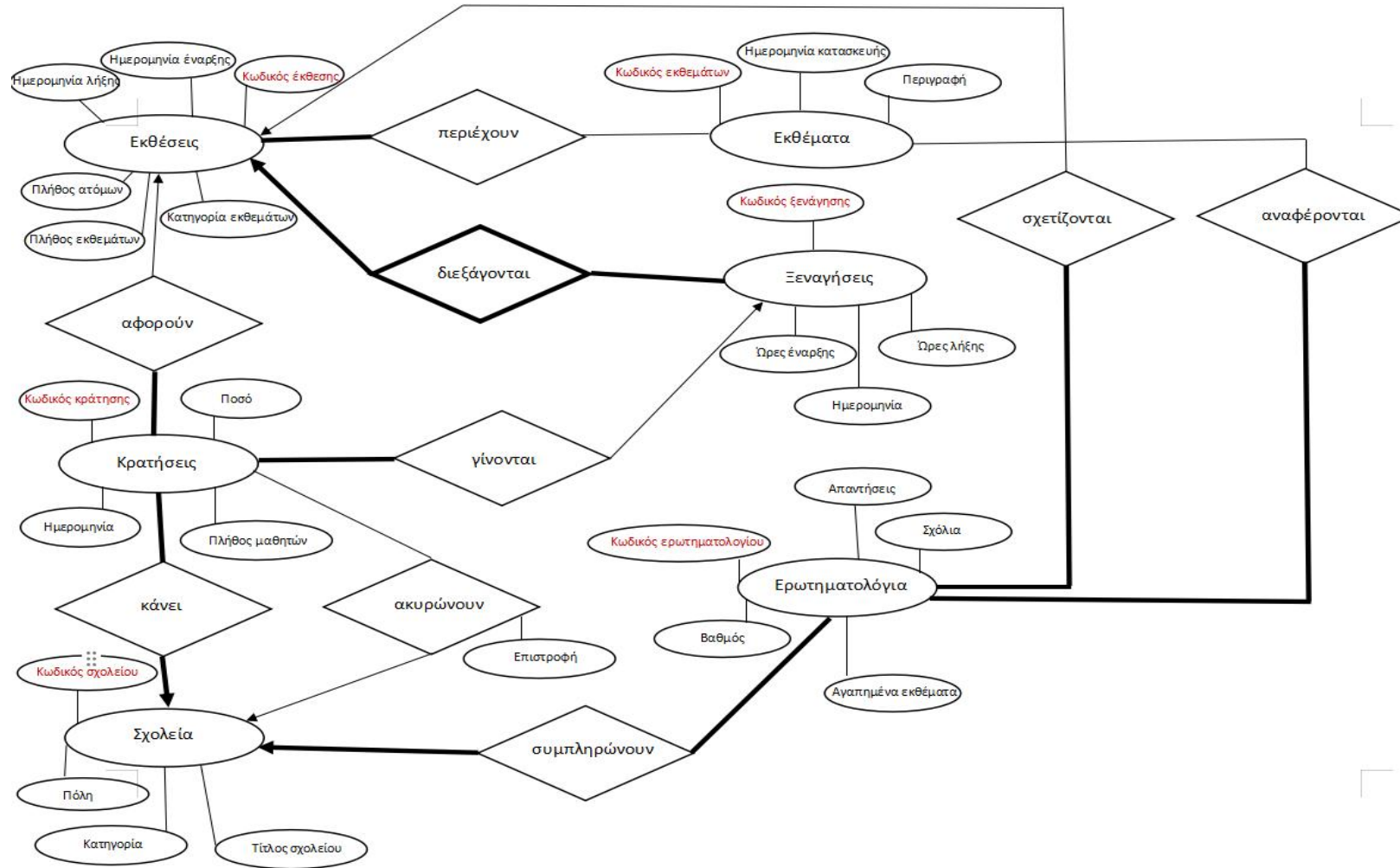
Σταθάκος Ηλίας 2017

Παπαθανασίου Κωνσταντίνος 2008

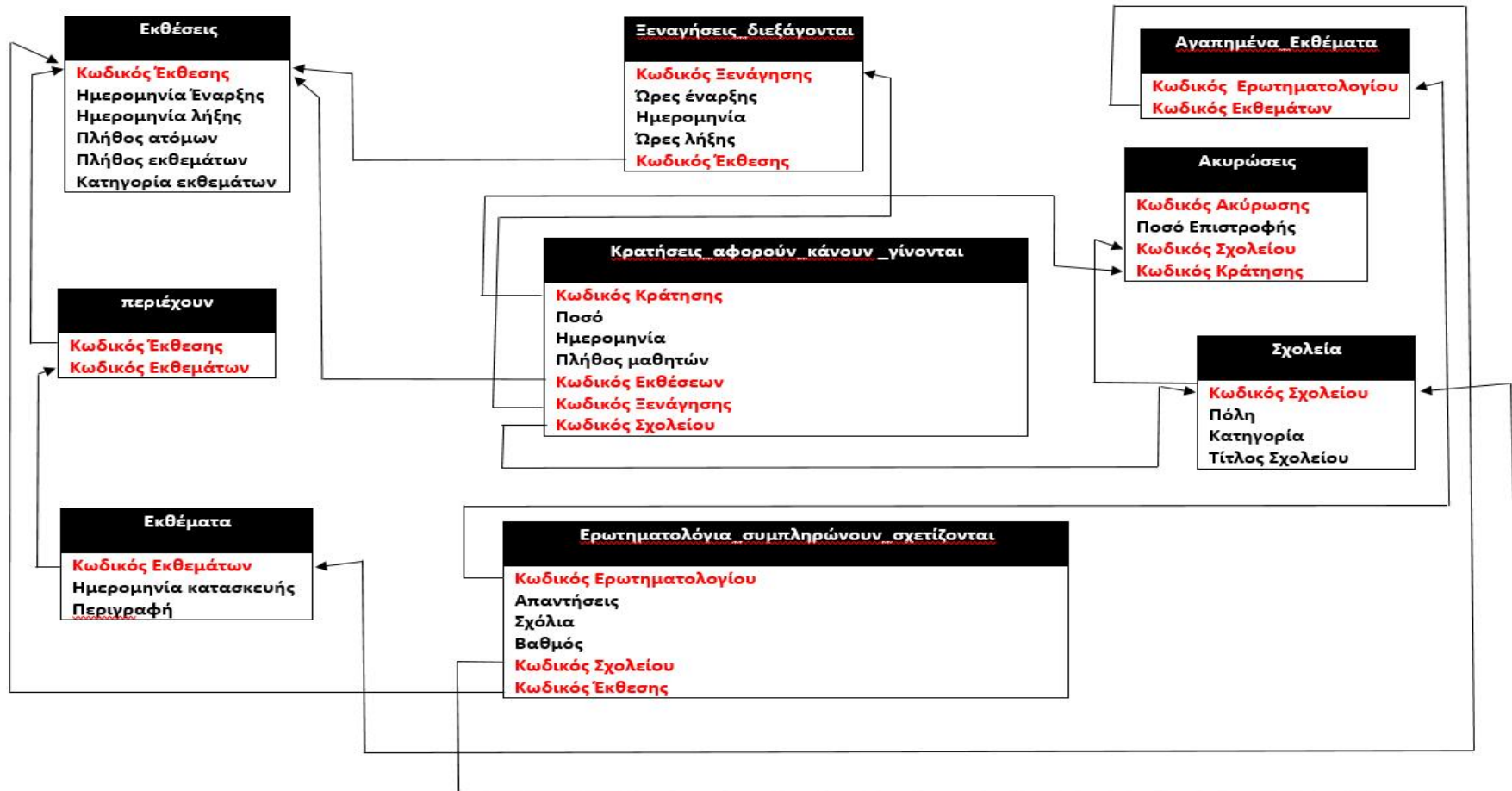
Τσότσιος Φίλιππος 1751

1)

Διάγραμμα Οντοτήτων-Συσχετίσεων



Σχεσιακό Διάγραμμα



2)

Create Table Exhibitions(

Exh_id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,

Starting_date DATE NOT NULL,

End_date DATE NOT NULL ,

Crowd_num INT(11) NOT NULL,

Exhibits_num INT(11) NOT NULL,

Category ENUM ('Literature','Painting','Sculpture','Theater') NOT NULL,

PRIMARY KEY (Exh_id));

Create Table Tours(

```
Tour_id          INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,  
Start_time       TIME NOT NULL ,  
End_time         TIME NOT NULL,  
Tour_date        DATE NOT NULL,  
Exh_id           INT(11) UNSIGNED NOT NULL,  
PRIMARY KEY      (Tour_id, Exh_id),  
FOREIGN KEY       (Exh_id) REFERENCES Exhibitions (Exh_id) ON DELETE CASCADE );
```

Create Table Include (

```
Exh_id           INT(11) UNSIGNED NOT NULL,  
Exhibits_id      INT(11) UNSIGNED NOT NULL,  
FOREIGN KEY       (Exh_id) REFERENCES Exhibitions (Exh_id) ON DELETE NO ACTION,  
FOREIGN KEY       ( Exhibits_id) REFERENCES Exhibits ( Exhibits_id) ON DELETE NO ACTION );
```

Create Table Exhibits(

Exhibits_id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,

Man_date DATE NOT NULL,

Description VARCHAR(600) NOT NULL,

PRIMARY KEY (Exhibits_id));

Create Table Reservations_Refer_Do_Made(

Reserv_id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,

Amount FLOAT(11) UNSIGNED NOT NULL,

RES_DATE DATE NOT NULL,

Students_num INT(11) UNSIGNED NOT NULL ,

Exh_id INT(11) UNSIGNED NOT NULL ,

Tour_id INT(11) UNSIGNED NOT NULL,

School_id INT(11) UNSIGNED NOT NULL,

PRIMARY KEY (Reserv_id),

FOREIGN KEY (Exh_id) REFERENCES Exhibitions (Exh_id) ON DELETE NO ACTION,

FOREIGN KEY (Tour_id) REFERENCES Tours (Tour_id) ON DELETE NO ACTION,

FOREIGN KEY (School_id) REFERENCES Schools (School_id) ON DELETE NO ACTION);

Create Table Schools (

School_id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,

Town VARCHAR(255) NOT NULL,

Category VARCHAR(255) NOT NULL,

Title VARCHAR(255) NOT NULL,

PRIMARY KEY (School_id));

Create Table Mentioned(

Exhibits_id INT(11) UNSIGNED NOT NULL,

Question_id INT(11) UNSIGNED NOT NULL,

FOREIGN KEY (Exhibits_id) REFERENCES Exhibits (Exhibits_id) ON DELETE NO ACTION,

FOREIGN KEY (Question_id) REFERENCES Questionnaire_Fill_Associated (Question_id) ON DELETE NO ACTION);

Create Table Questionnaire_Fill_Associated (

Question_id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,
Responses VARCHAR(400),
Comments VARCHAR(255),
Grade TINYINT(4) UNSIGNED,
School_id INT(11) UNSIGNED NOT NULL,
Exh_id INT(11) UNSIGNED NOT NULL ,
PRIMARY KEY (Question_id) ,
FOREIGN KEY (Exh_id) REFERENCES Exhibitions (Exh_id) ON DELETE NO ACTION,
FOREIGN KEY (School_id) REFERENCES Schools (School_id) ON DELETE NO ACTION);

Create Table Favourite_Exhibits(

Question_id INT(11) UNSIGNED NOT NULL,
Exhibits_id INT(11) UNSIGNED NOT NULL,
FOREIGN KEY (Question_id) REFERENCES Questionnaire_Fill_Associated (Question_id) ON DELETE NO ACTION,
FOREIGN KEY (Exhibits_id) REFERENCES Exhibits (Exhibits_id) ON DELETE NO ACTION);

Create Table Cancellations(

Cancellation_id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,

Refund FLOAT(11) UNSIGNED NOT NULL,

School_id INT(11) UNSIGNED NOT NULL,

Reserv_id INT(11) UNSIGNED NOT NULL,

PRIMARY KEY (Cancellation_id),

FOREIGN KEY (School_id) REFERENCES Schools (School_id) ON DELETE NO ACTION,

FOREIGN KEY (Reserv_id) REFERENCES Reservations_Refer_Do_Made (Reserv_id) ON DELETE NO ACTION);