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# Database Creation Script

CREATE DATABASE StudentAccomodation;

CREATE TABLE NextOfKin (

NOK\_ID INTEGER (7) NOT NULL,

NOK\_Name TEXT,

NOK\_Relation TINYTEXT,

NOK\_Address\_Street TEXT,

NOK\_Address\_City TEXT,

NOK\_Address\_PCODE TEXT,

NOK\_Phone TEXT,

NOK\_Student\_ID INTEGER (7)

);

CREATE TABLE Courses (

Course\_ID INTEGER (7) NOT NULL,

Course\_Title TEXT,

Course\_Year TEXT,

Course\_Leader TEXT,

Course\_Phone TEXT,

Course\_Room TEXT,

Course\_Dept TEXT

);

CREATE TABLE PaymentMethods (

Payment\_Code INTEGER (4) NOT NULL,

Payment\_Descr TEXT

);

CREATE TABLE StudentPaymentDetails (

Details\_Code INTEGER (7) NOT NULL,

Details\_Payment\_Code INTEGER (4),

Details\_Student\_ID INTEGER (7),

Details\_Card\_Account\_Number TEXT,

Details\_Card\_Sort\_Code TEXT

);

CREATE TABLE Invoice (

Invoice\_Num INTEGER (7) NOT NULL,

Invoice\_Lease\_Num INTEGER (7),

Invoice\_Student\_ID INTEGER (7),

Invoice\_Place\_Num INTEGER (7),

Invoice\_Pay\_Date DATE,

Invoice\_Pay\_Amount DECIMAL,

Invoice\_Payment\_Code INTEGER (7),

Invoice\_First\_Reminder DATE,

Invoice\_Second\_Reminder DATE,

);

CREATE TABLE StudentAddress (

Stud\_Address\_ID INTEGER (7) NOT NULL,

Stud\_\_Uni\_Add\_ID INTEGER (7),

Stud\_Lease\_ID INTEGER (7),

Stud\_Place\_Num INTEGER (7),

Stud\_Student\_ID INTEGER (7)

);

CREATE TABLE Lease (

Lease\_Num INTEGER (7) NOT NULL,

Lease\_Duration TEXT,

Lease\_Rent\_Rate DECIMAL,

Lease\_Start\_Date DATE,

Lease\_Finish\_Date DATE,

Lease\_Student\_ID INTEGER (7),

Lease\_Place\_Num INTEGER (7),

Lease\_Student\_Add\_ID INTEGER (7)

);

CREATE TABLE FlatInspections (

Inspect\_ID INTEGER (7) NOT NULL,

Inspect\_Staff\_ID INTEGER (7),

Inspect\_Date DATE,

Inspect\_Condition TEXT,

Inspect\_Comments TEXT,

Inspect\_Place\_Num INTEGER (7)

);

CREATE TABLE Staff (

Staff\_ID INTEGER (7) NOT NULL,

Staff\_Name TEXT,

Staff\_Address\_Street TEXT,

Staff\_Address\_City TEXT,

Staff\_Address\_Pcode TEXT,

Staff\_DOB DATE,

Staff\_Position TEXT,

Staff\_Location\_ID INTEGER (7)

);

CREATE TABLE Address (

Add\_ID INTEGER (7) NOT NULL,

Add\_Uni\_Accom\_ID INTEGER (7),

Add\_Street TEXT,

Add\_City TEXT,

Add\_PCode TEXT

);

CREATE TABLE UniAccomodation (

Uni\_Accom\_ID INTEGER (7) NOT NULL,

Uni\_Accom\_Type TEXT,

Uni\_Accom\_Building\_Name TEXT,

Uni\_Accom\_Num\_Of\_Rooms INTEGER (4),

Uni\_Accom\_Staff\_ID INTEGER (7),

Uni\_Accom\_Add\_ID INTEGER (7)

);

CREATE TABLE Room (

Place\_Num INTEGER (7) NOT NULL,

Room\_Number TEXT,

Room\_Uni\_Accom\_ID INTEGER (7)

);

CREATE TABLE Student (

Student\_ID INTEGER (7) NOT NULL,

Student\_First\_Name TEXT,

Student\_Second\_Name TEXT,

Stud\_Home\_Add\_ID INTEGER (7),

Student\_NOK\_ID INTEGER (7),

Student\_Date\_Left\_Uni INTEGER (7),

Student\_Email TEXT,

Student\_Category TEXT,

Student\_Nationality TEXT,

Student\_Smoker CHAR (1),

Student\_Special\_Needs TEXT,

Student\_Comments TEXT,

Student\_Placed CHAR (1),

Student\_Course\_ID INTEGER (7),

Student\_Place\_Num INTEGER (7)

);

CREATE TABLE HomeAddress (

Home\_Add\_ID INTEGER (7) NOT NULL,

Home\_Student\_ID INTEGER (7),

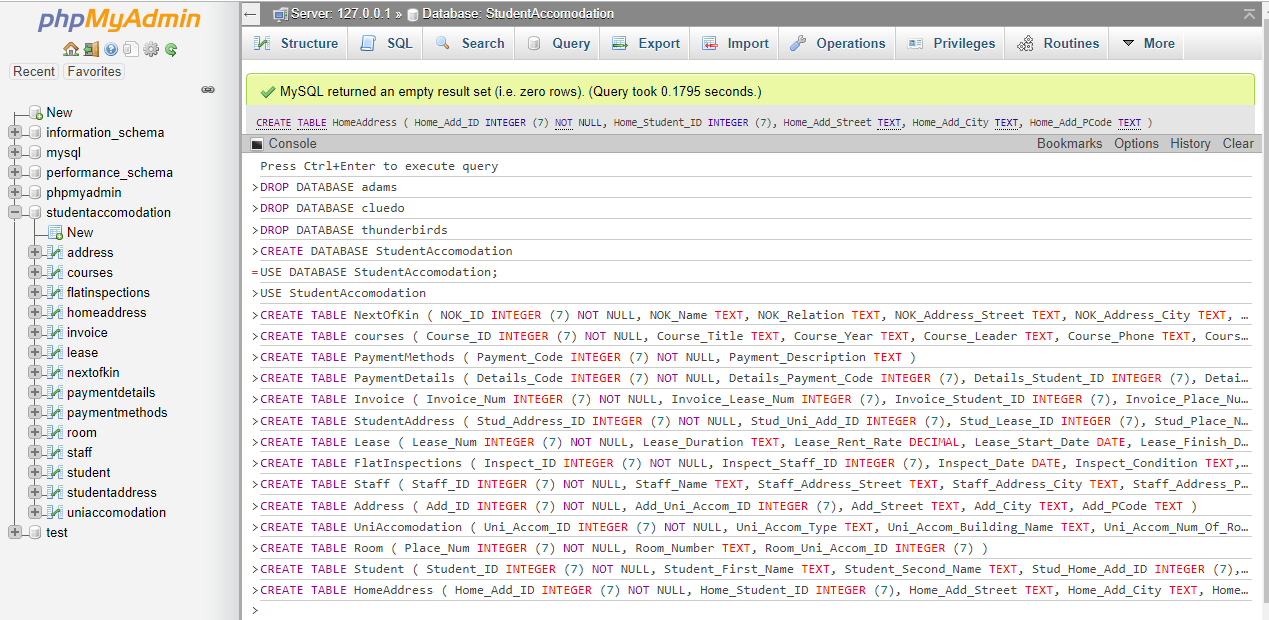
Home\_Add\_Street TEXT,

Home\_Add\_City TEXT,

Home\_Add\_PCode TEXT

);

# Database Creation Screenshot



# Data Import Script

LOAD DATA INFILE 'c:/Address\_Data.csv'

INTO TABLE address

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Course\_Data.csv'

INTO TABLE courses

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/FlatInspections\_Data.csv'

INTO TABLE flatinspections

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Home\_Data.csv'

INTO TABLE homeaddress

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Invoice\_Data.csv'

INTO TABLE invoice

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Lease\_Data.csv'

INTO TABLE lease

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/NOK\_Data.csv'

INTO TABLE nextofkin

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Staff\_Data.csv'

INTO TABLE staff

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Student\_Data.csv'

INTO TABLE student

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/StudentAddress\_Data.csv'

INTO TABLE studentaddress

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA INFILE 'c:/Uni\_Accom\_Data.csv'

INTO TABLE uniaccomodation

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

# Data Import Screen Shot

# Setting Primary Keys Script

ALTER TABLE address

ADD PRIMARY KEY (Add\_ID);

ALTER TABLE courses

ADD PRIMARY KEY (Course\_ID);

ALTER TABLE flatinspections

ADD PRIMARY KEY (Inspect\_ID);

ALTER TABLE homeaddress

ADD PRIMARY KEY (Home\_Add\_ID);

ALTER TABLE invoice

ADD PRIMARY KEY (Invoice\_Num);

ALTER TABLE lease

ADD PRIMARY KEY (Lease\_Num);

ALTER TABLE nextofkin

ADD PRIMARY KEY (NOK\_ID);

ALTER TABLE paymentdetails

ADD PRIMARY KEY (Details\_Code);

ALTER TABLE paymentmethods

ADD PRIMARY KEY (Payment\_Code);

ALTER TABLE room

ADD PRIMARY KEY (Place\_Num);

ALTER TABLE staff

ADD PRIMARY KEY (Staff\_ID);

ALTER TABLE student

ADD PRIMARY KEY (Student\_ID);

ALTER TABLE studentaddress

ADD PRIMARY KEY (Stud\_Address\_ID);

ALTER TABLE uniaccomodation

ADD PRIMARY KEY (Uni\_Accom\_ID);

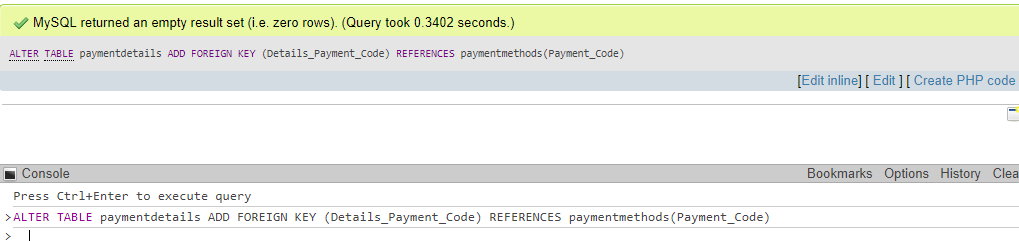
# Setting Foreign Keys Script

ALTER TABLE paymentdetails

ADD FOREIGN KEY (Details\_Payment\_Code)

REFERENCES

paymentmethods(Payment\_Code);

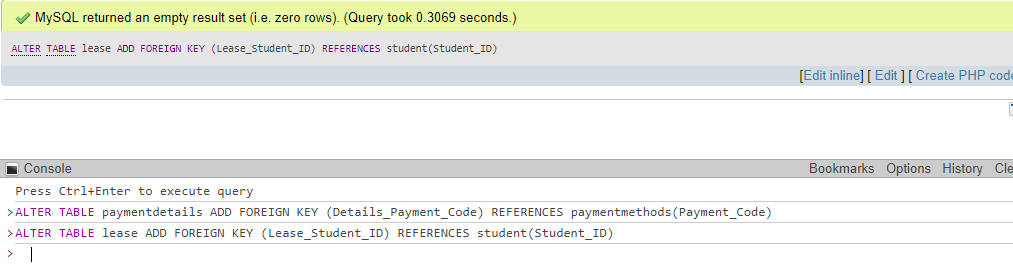


ALTER TABLE lease

ADD FOREIGN KEY (Lease\_Student\_ID)

REFERENCES

student(Student\_ID);

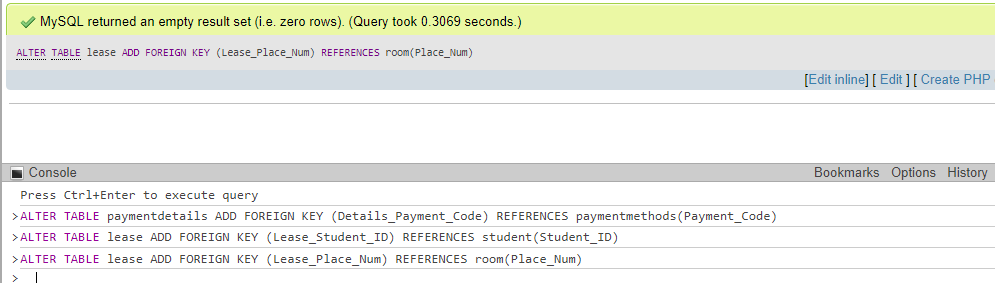


ALTER TABLE lease

ADD FOREIGN KEY (Lease\_Place\_Num)

REFERENCES

room(Place\_Num);

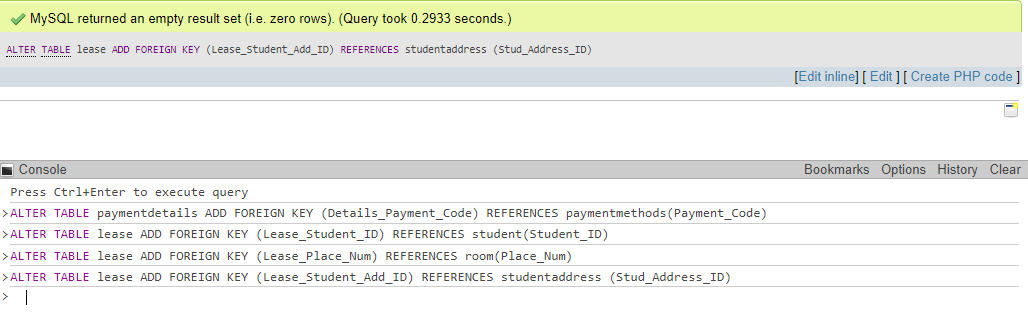


ALTER TABLE lease

ADD FOREIGN KEY (Lease\_Student\_Add\_ID)

REFERENCES

studentaddress (Stud\_Address\_ID);

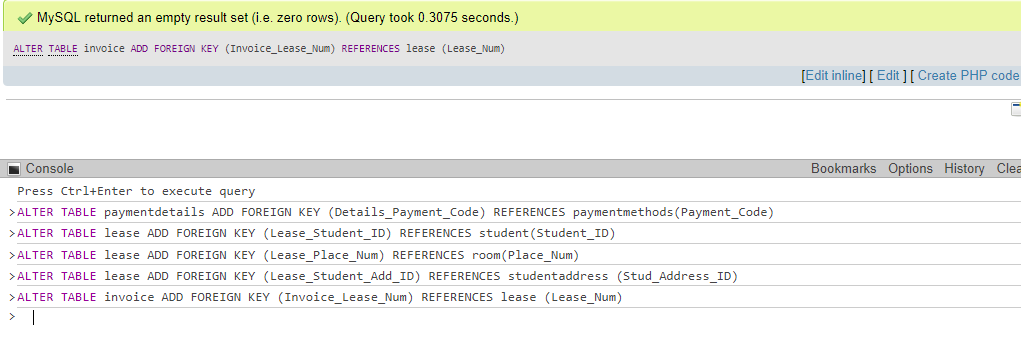


ALTER TABLE invoice

ADD FOREIGN KEY (Invoice\_Lease\_Num)

REFERENCES

lease (Lease\_Num);

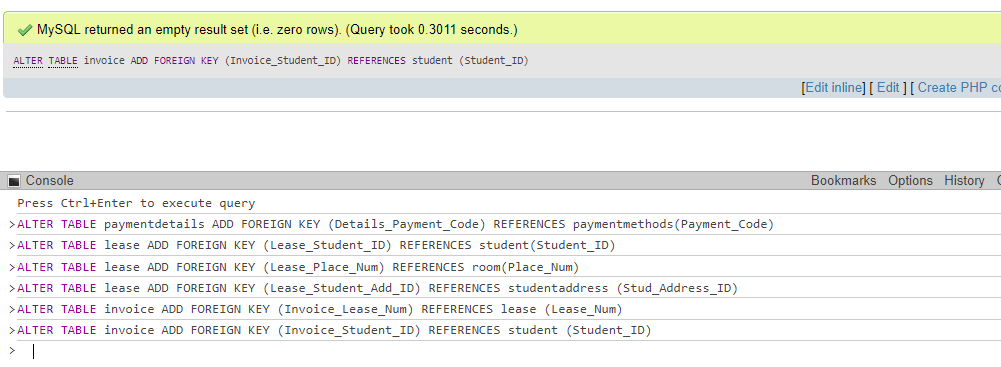


ALTER TABLE invoice

ADD FOREIGN KEY (Invoice\_Student\_ID)

REFERENCES

student (Student\_ID);

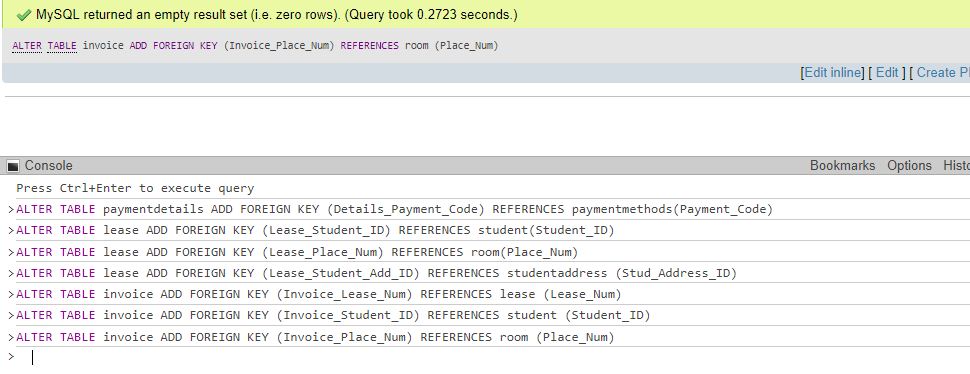


ALTER TABLE invoice

ADD FOREIGN KEY (Invoice\_Place\_Num)

REFERENCES

room (Place\_Num);

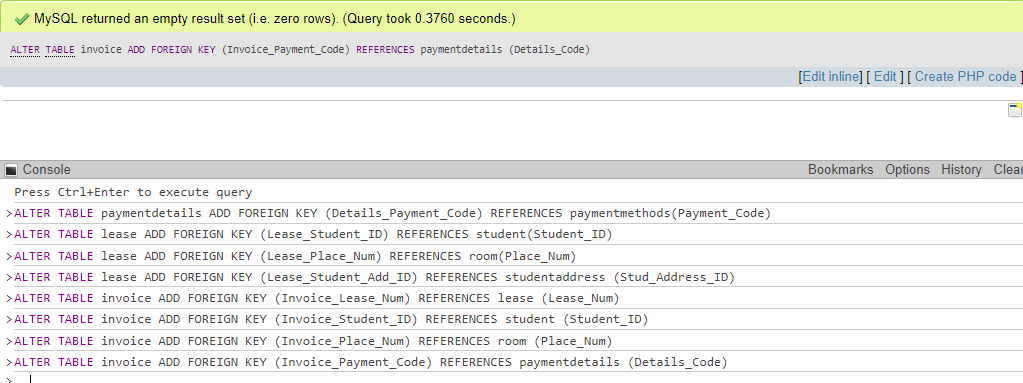


ALTER TABLE invoice

ADD FOREIGN KEY (Invoice\_Payment\_Code)

REFERENCES

paymentdetails (Details\_Code);

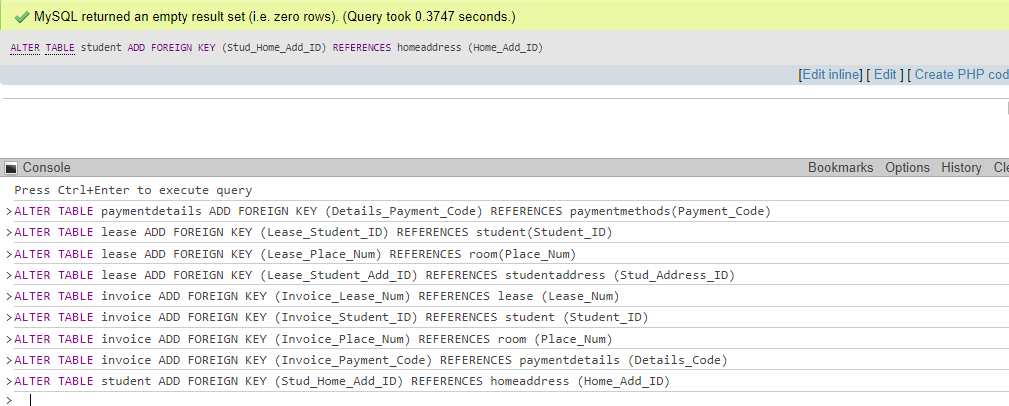


ALTER TABLE student

ADD FOREIGN KEY (Stud\_Home\_Add\_ID)

REFERENCES

homeaddress (Home\_Add\_ID);



ALTER TABLE student

ADD FOREIGN KEY (Student\_NOK\_ID)

REFERENCES

nextofkin (NOK\_ID);

ALTER TABLE student

ADD FOREIGN KEY (Student\_Course\_ID)

REFERENCES

Courses (Course\_ID);

ALTER TABLE student

ADD FOREIGN KEY (Student\_Address\_ID)

REFERENCES

studentaddress (Stud\_Address\_ID);

ALTER TABLE uniaccomodation

ADD FOREIGN KEY (Uni\_Accom\_Staff\_ID)

REFERENCES

staff (Staff\_ID);

ALTER TABLE uniaccomodation

ADD FOREIGN KEY (Uni\_Accom\_Add\_ID)

REFERENCES

address (Add\_ID);

ALTER TABLE studentaddress

ADD FOREIGN KEY (Stud\_lease-ID)

REFERENCES

lease (Lease\_Num);

ALTER TABLE studentaddress

ADD FOREIGN KEY (Stud\_Place\_Num)

REFERENCES

room (Place\_Num);

ALTER TABLE studentaddress

ADD FOREIGN KEY (Stud\_Student\_ID)

REFERENCES

Student (Student\_ID);

ALTER TABLE flatinspections

ADD FOREIGN KEY (Inspect\_Staff\_ID)

REFERENCES

staff (Staff\_ID);

ALTER TABLE flatinspections

ADD FOREIGN KEY (Inspect\_Place\_Num)

REFERENCES

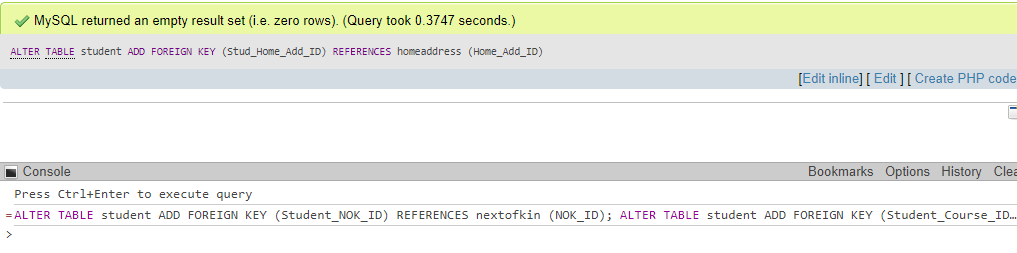
room (Place\_Num);

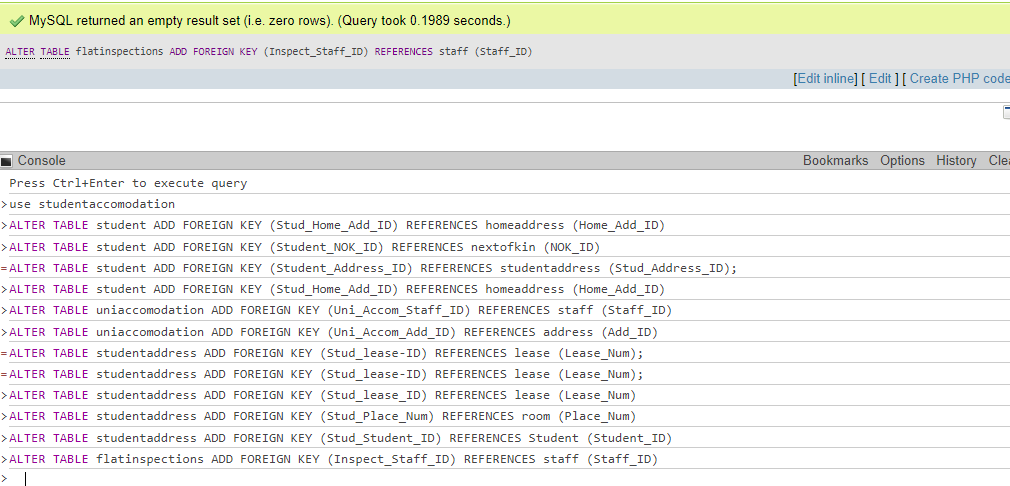
ALTER TABLE staff

ADD FOREIGN KEY (Staff\_Location\_ID)

REFERENCES

uniaccomodation (Uni\_Accom\_ID);





# Unique Constraint on Primary Keys

