Kyle Cullion, Joe Hirschfeld M08747336, M08704926 Professor Dey Database Design 7/30/2018

Database Project Part 2

### **RDB Translation**

**Student**(<u>MNumber</u>, <u>DepartmentNo</u>, Firstname, Lastname, Dob, Gender, Category, Nationality, Current\_Status, AptNo, HouseNo, Street, City, State, Zipcode, Year)

• DepartmentNo is a foreign key to AcademicDepartment SpecialNeeds(MNumber, Needs)

• MNumber is a foreign key to **Student** 

**AdditionalComments**(MNumber, Comments)

• MNumber is a foreign key to **Student** 

AcademicDepartment(Department#, EmployeeNoAdvisor)

• EmployeeNoAdvisor is a foreign key to **Staff** 

**Staff** (EmployeeNo, FirstName, LastName, Gender, Jobtitle, DOB, ResidenceHallName, OfficeNo)

**ResidenceHall**(Name, EmployeeNoManager, Telephone, House\_No, Street, City, State, Zip)

• EmployeeNoManager is a foreign key to **Staff** 

**Room**(Roomno, Suiteno, DoorNo, Monthly\_Rate)

• Suiteno is a foreign key to Suite

Suite(<u>UniqueSuiteNo</u>, DoorNo, Bedrooms)

Lease(<u>LeaseNo</u>, <u>MNumber</u>, <u>UniqueSuiteNo</u>, <u>UniqueRoomNo</u>, <u>ResidenceHallName</u>, MoveOut, MoveIn, Duration, Academic\_Year)

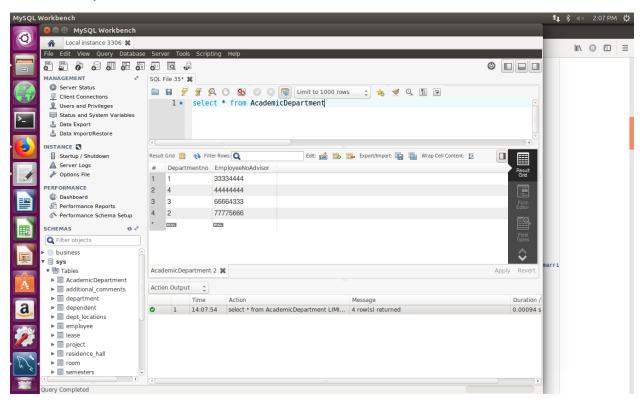
- MNumber is a foreign key to **Student**
- UniqueSuiteNo is a foreign key to Suite
- UniqueRoomNo is a foreign key to Room
- ResidenceHallName is a foreign key to ResidenceHall

Semesters(LeaseNo, Semester)

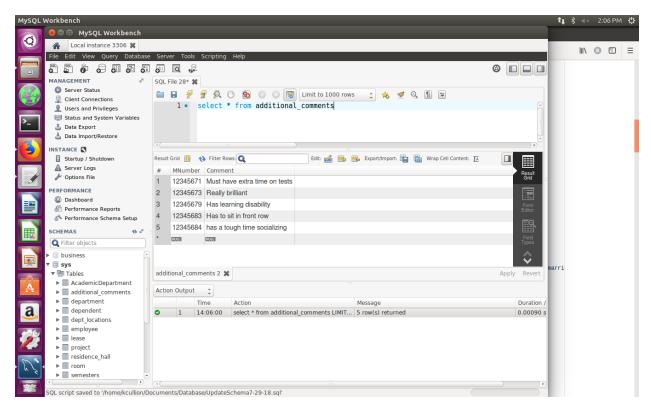
• LeaseNo is a foreign key to Lease

# **Populated Tables**

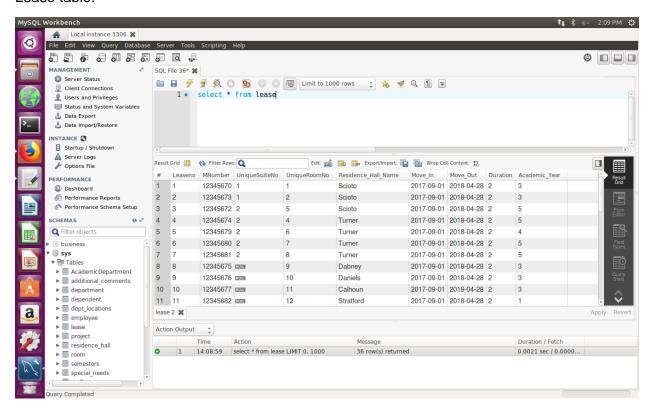
#### AcademicDepartment table:



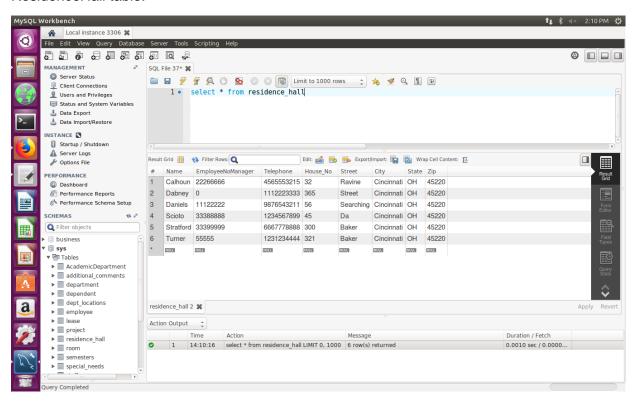
#### Additional comments:



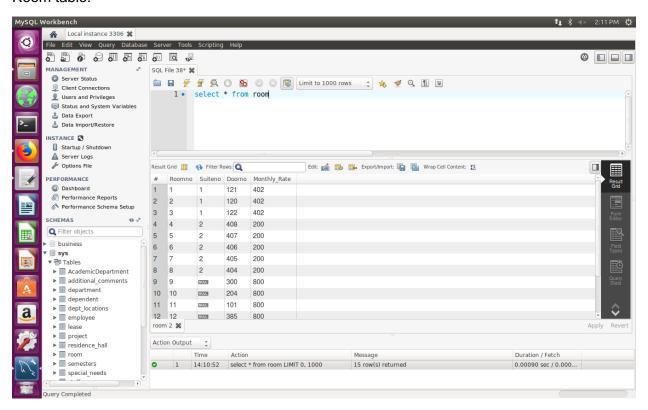
#### Lease table:



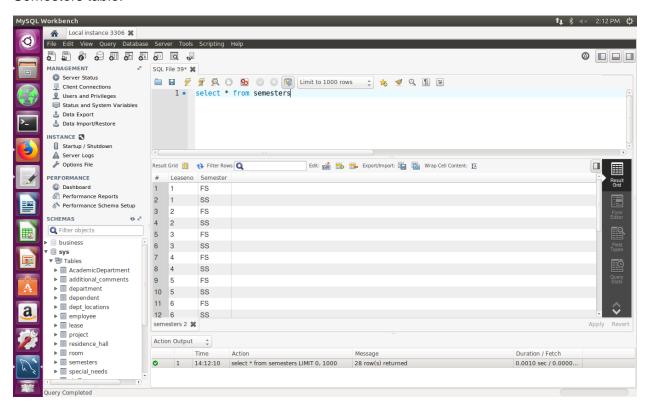
#### ResidenceHall table:



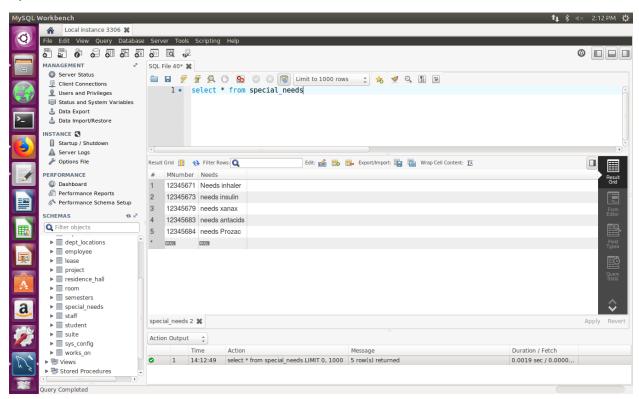
#### Room table:



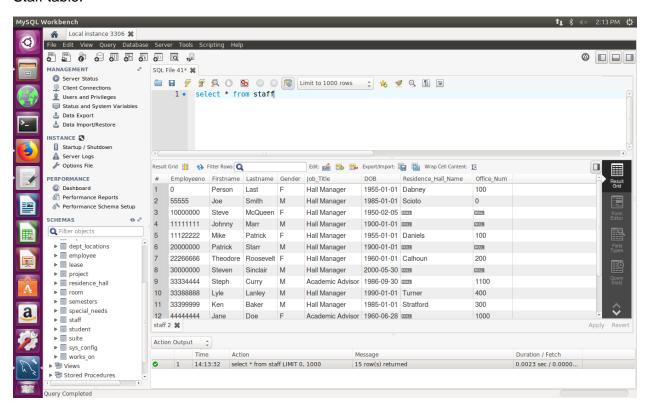
#### Semesters table:



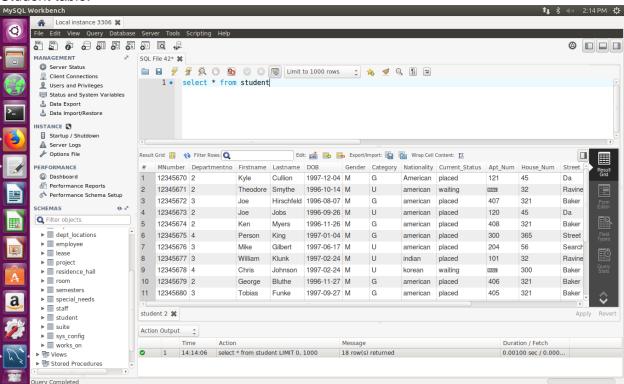
#### Special\_needs table:



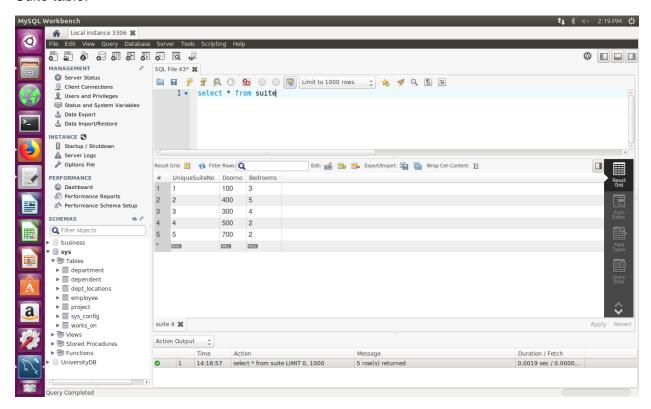
#### Staff table:



#### Student table:

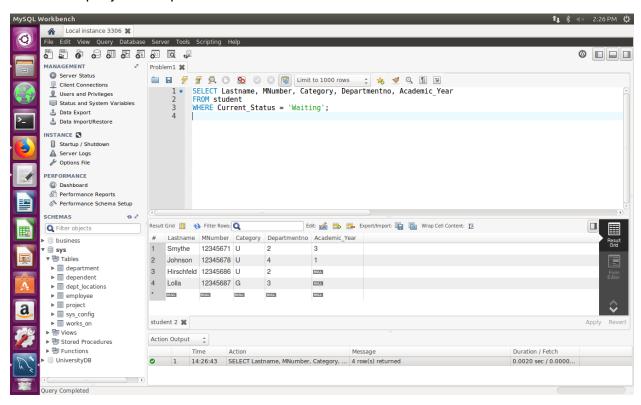


#### Suite table:

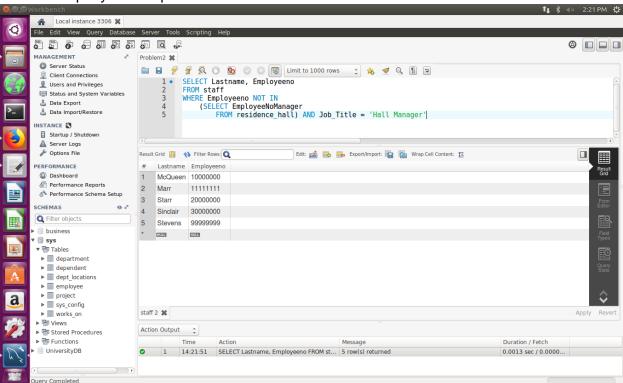


## **Queries and Output**

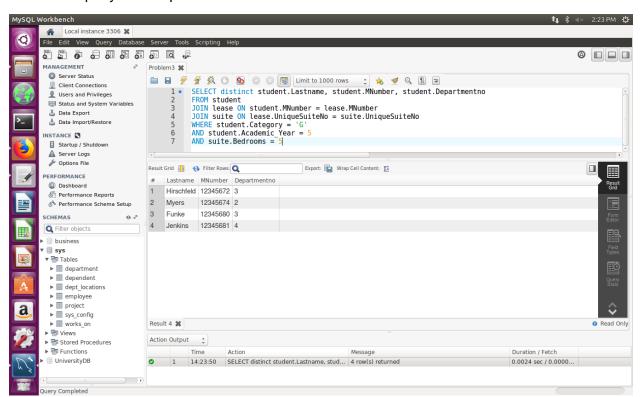
#### Problem 1 query and output:



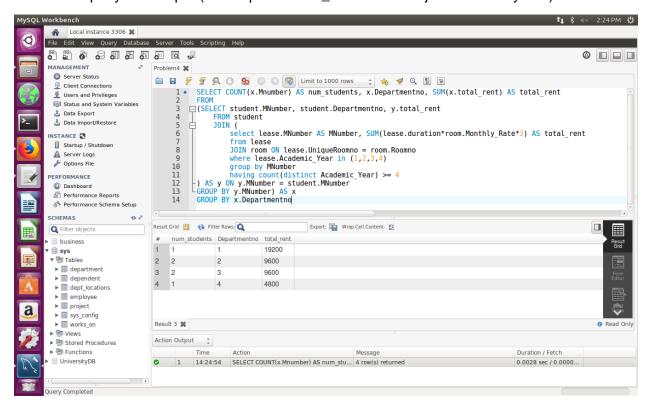
Problem 2 query and output:



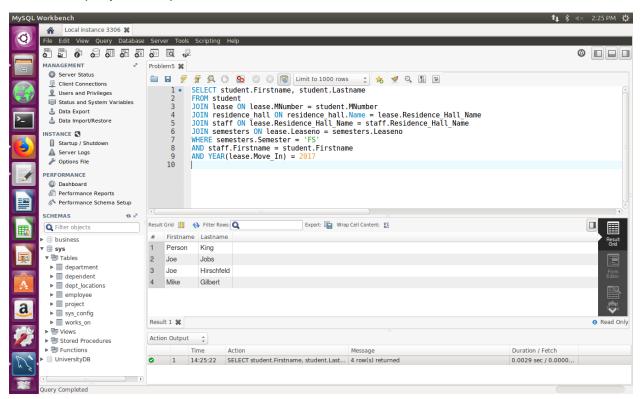
#### Problem 3 query and output:



Problem 4 query and output (Assumption: Total\_rent wanted is just for first 4 years):



#### Problem 5 query and output:



### Log

Names: Joe Hirschfeld, Kyle Cullion Time, Location, Duration: 17:45, Langsam Library, Thursday, July 26, 4.5 hours Topics of Discussion: Finalizing Schema and setting up database in MySQL Action Items: Kyle – Setting up instance of MySQL and populating data Joe - Assisting with population and finalizing of RDB Names: Joe Hirschfeld, Kyle Cullion Time, Location, Duration: 2:00, Langsam Library, Friday, July 27, 3 hours Topics of Discussion: Finalizing Queries Action Items: Kyle – Finished Queries 3, 4, and 5 Joe – Wrote queries 1 and 2, and also helped on queries 4 and 5 Names: Joe Hirschfeld, Kyle Cullion Time, Location, Duration: 1:00, Langsam Library, Saturday, July 28, 2 hour Topics of Discussion: Checking queries and compiling screenshots and information for later submission Action Items: Kyle – Executed queries and collected screenshots

Total Hours: 9.5 Hours (3 hours solo work for each, 6.5 hours team work)

Joe – Compiled information for later submission