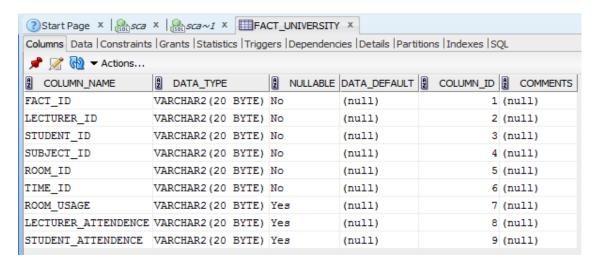
Star Schema Assignment

University Scenario

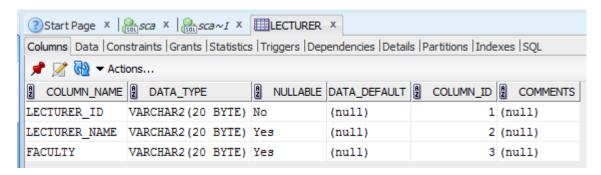
6/11/2015 CPUT Shannon Scholtz Student Number: 212125583

Database Fields of University Scenario Star Schema:

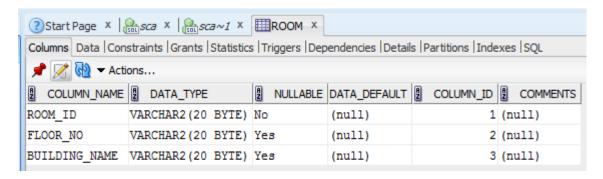
FACT Table: Fact University



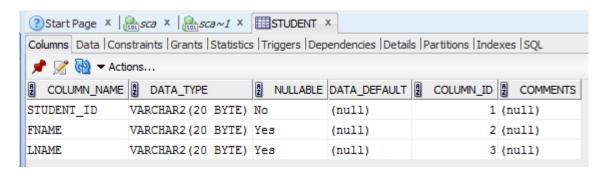
Lecturer Table: Lecturer



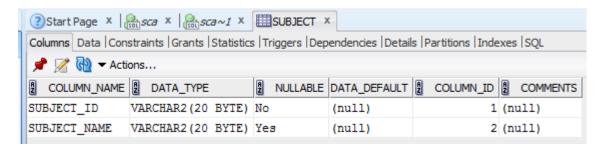
Room Table: Room



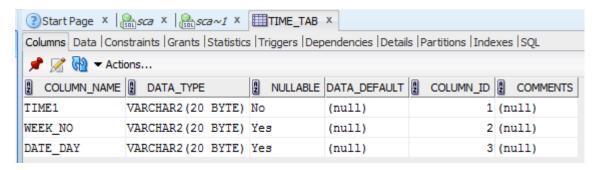
Student table: Student



Subject Table: Subject



Time Table: Time tab

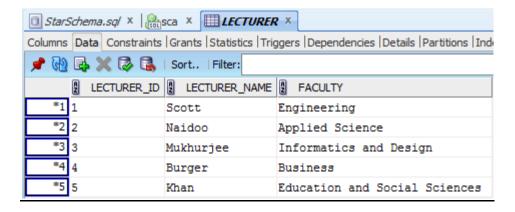


Test Data:

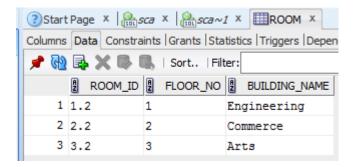
Fact_University

| ②Start Page × ☐ Untitled.sql × ☐ FACT_UNIVERSITY × | | | | | | | |
|---|------------|-------------|------------|---------|---------|--|--|
| Columns Data Constraints Grants Statistics Triggers Dependencies Details Partitions Indexes SQL | | | | | | | |
| 📌 🚱 🔜 Sort Filter: | | | | | | | |
| | STUDENT_ID | LECTURER_ID | SUBJECT_ID | ROOM_ID | TIME_ID | | |
| 1 | 23 | 3 | ISY3B00S | 3.2 | 10:00 | | |
| 2 | 21 | 1 | ISY3B00S | 1.2 | 08:00 | | |
| 3 | 22 | 2 | ISY3B00S | 2.2 | 09:00 | | |
| 4 | 24 | 4 | ISY3A00S | 1.2 | 11:00 | | |
| 5 | 25 | 5 | ISY3A00S | 2.2 | 12:00 | | |
| 6 | 21 | 1 | ISY3B00S | 3.2 | 09:00 | | |
| 7 | 21 | 2 | ISY3A00S | 1.2 | 08:00 | | |
| 8 | 21 | 3 | ISY3B00S | 2.2 | 11:00 | | |
| 9 | 22 | 5 | ISY3A00S | 1.2 | 09:00 | | |
| 10 | 23 | 4 | ISY3B00S | 3.2 | 08:00 | | |
| 11 | 24 | 1 | ISY3A00S | 1.2 | 11:00 | | |
| 12 | 25 | 2 | ISY3B00S | 2.2 | 08:00 | | |
| 13 | 21 | 3 | ISY3A00S | 3.2 | 09:00 | | |
| 14 | 22 | 4 | ISY3B00S | 1.2 | 08:00 | | |
| 15 | 24 | 5 | ISY3A00S | 3.2 | 11:00 | | |
| 16 | 24 | 5 | ISY3B00S | 1.2 | 09:00 | | |
| 17 | 25 | 4 | ISY3A00S | 3.2 | 08:00 | | |
| 18 | 21 | 3 | ISY3A00S | 2.2 | 09:00 | | |
| 19 | 22 | 2 | ISY3B00S | 1.2 | 08:00 | | |
| 20 | 23 | 1 | ISY3A00S | 2.2 | 11:00 | | |
| 21 | 24 | 1 | ISY3B00S | 1.2 | 08:00 | | |
| | | | | | | | |
| | 25 | 2 | ISY3A00S | 2.2 | 11:00 | | |
| | 21 | 3 | ISY3B00S | 3.2 | 11:00 | | |
| | 22 | 4 | ISY3A00S | 2.2 | 08:00 | | |
| | 23 | 5 | ISY3A00S | 3.2 | 11:00 | | |
| | 24 | 5 | ISY3A00S | 2.2 | 08:00 | | |
| | 25 | 4 | ISY3A00S | 1.2 | 09:00 | | |
| | 22 | 2 | ISY3B00S | 2.2 | 11:00 | | |
| | 21 | 3 | ISY3A00S | 1.2 | 09:00 | | |
| | 22 | 1 | ISY3B00S | 3.2 | 11:00 | | |
| 31 | 22 | 3 | ISY3A00S | 1.2 | 09:00 | | |

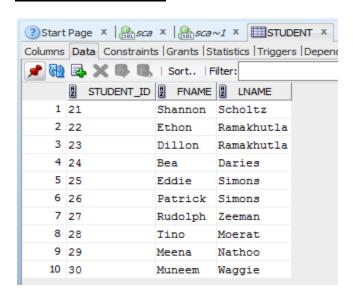
Lecturer Table: Lecturer



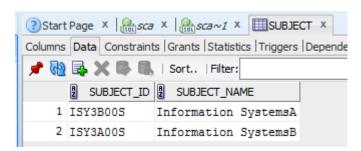
Room Table: Room



Student table: Student



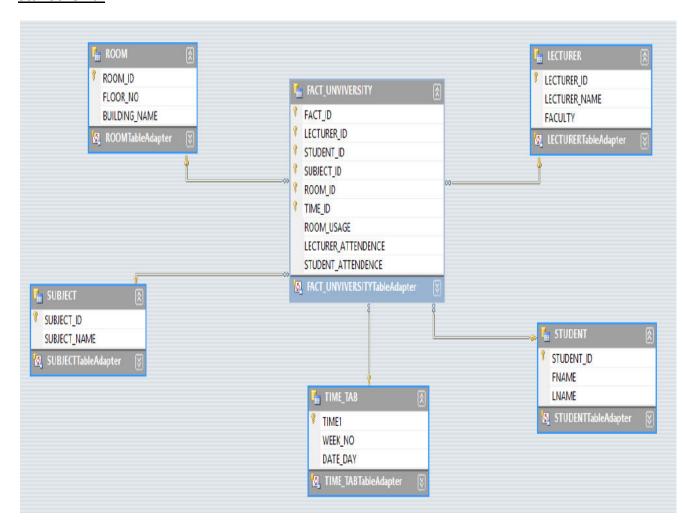
Subject Table: Subject



Time Table: Time tab

| ? Start | Page x | sca x | sca~1 × TIME_TAB × | | | | |
|---|---------|---------|--------------------|--|--|--|--|
| Columns Data Constraints Grants Statistics Triggers Depende | | | | | | | |
| 📌 🔃 🛼 💢 🌄 Sort Filter: | | | | | | | |
| | A TIME1 | WEEK_NO | DATE_DAY | | | | |
| 1 | 00:80 | 1 | 27/05/2015 | | | | |
| 2 | 09:00 | 1 | 27/05/2015 | | | | |
| 3 | 10:00 | 1 | 27/05/2015 | | | | |
| 4 | 11:00 | 1 | 27/05/2015 | | | | |
| 5 | 12:00 | 1 | 27/05/2015 | | | | |
| 6 | 13:00 | 1 | 27/05/2015 | | | | |
| 7 | 14:00 | 1 | 27/05/2015 | | | | |
| 8 | 15:00 | 1 | 27/05/2015 | | | | |
| 9 | 16:00 | 1 | 27/05/2015 | | | | |
| 10 | 17:00 | 1 | 27/05/2015 | | | | |

Star Schema:



Reports:

Percentage of room usage

Room ID: 1.2

Lecturer ID: 1

Lecturer ID: 4

Lecturer ID: 2

Lecturer ID: 5

Lecturer ID: 1

Lecturer ID: 4

Lecturer ID: 5

Lecturer ID: 2

Lecturer ID: 1

Lecturer ID: 4

Lecturer ID: 3

Lecturer ID: 3

Percentage:38%

Room ID: 2.2

Lecturer ID: 2

Lecturer ID: 5

Lecturer ID: 3

Lecturer ID: 2

Lecturer ID: 3

Lecturer ID: 1

Lecturer ID: 2

Lecturer ID: 4

Lecturer ID: 5

Lecturer ID: 2

Percentage: 32%

Room ID: 3.2

Lecturer ID: 3

Lecturer ID: 1

Lecturer ID: 4

Lecturer ID: 3

Lecturer ID: 5

Lecturer ID: 4

Lecturer ID: 3

Lecturer ID: 5

Lecturer ID: 1

Percentage: 29%

Total Number Of Classes Timetabled For The Semester

ISY3A00S = 17

ISY3B00S =14

Percentage Of Attendance Of Students

ISY3A00S= 54%

ISY3B00S= 45%

Percentage Of Attendance Of Lecturers

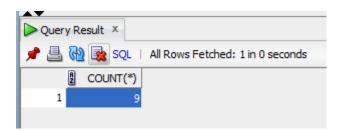
ISY3A00S=54%

ISY3B00S=45%

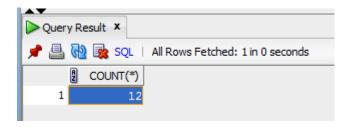
Total Number Of Times The Room Has Been Used:



Students And Lectures Make Use of Room 3.2



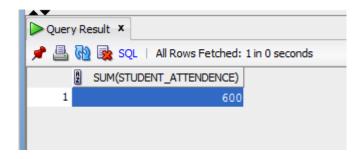
Students And Lectures Make Use Room 1.2



Students And Lectures Make Use Room 2.2



Number Of Times All Students Attended ISY3B00S Over The Semester



Number Of Times All Students Attended ISY3A00S Over The Semester

