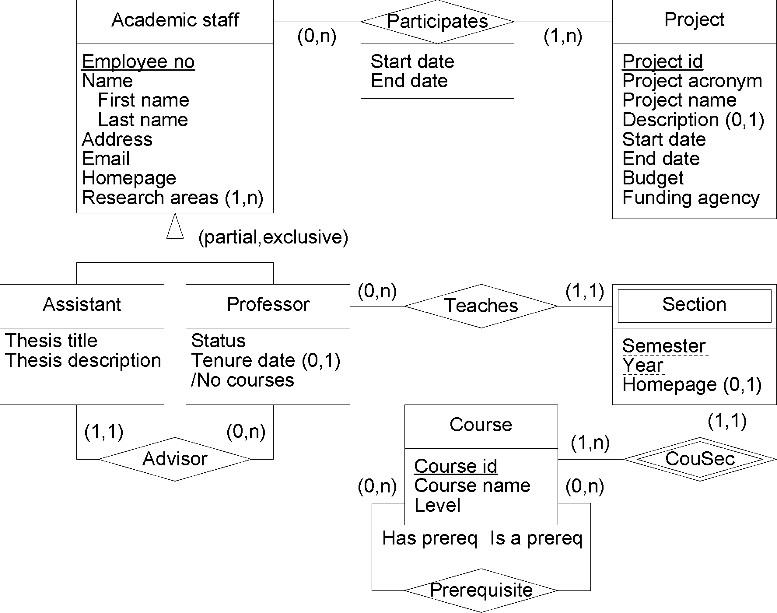
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| --- |
| Name: Luciana Palucci |
| Course: CEDB 1250 (Big Data Storage) |
| Exercise #4: MOLAP Model |

Conceptual Model Design:



Question: Based on our database model, define a MOLAP model with at least one fact and 4 dimensions

**STAR SCHEMA**

Fact Table:

|  |
| --- |
| **FACT TABLE** |
| Employee\_no (FK) |
| Participates\_key (FK) |
| Teaches\_key (FK) |
| Advises\_key (FK) |
| Research\_key (FK) |
| Participates\_start\_date |
| Participates\_end\_date |
| Semester |
| Year |
| Homepage |
|  |

|  |
| --- |
| **Employee Profile Dimension** |
| Employee\_no (PK) |
| First\_name |
| Last\_name |
| Address |
| Email |
| Homepage |
| Research\_key (FK) |
| Advises\_key(FK) |
| Participates\_key(FK) |
| Teaches\_key (FK) |
| Status |

|  |
| --- |
| **Project Dimension** |
| Project\_id (PK) |
| Project\_name |
| Project\_acronym |
| Description |
| Start\_date |
| End\_date |
| Budget |
| Funding\_agency |
| Participates\_key(FK) |

|  |
| --- |
| **Course Dimension** |
| Course\_id (PK) |
| Course\_name |
| Level |
| Has\_prereq |
| Is\_prereq |
| Teaches\_key(FK) |
|  |

|  |
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| **Reseach Dimension** |
| Research\_id (PK) |
| Thesis\_title |
| Thesis\_description |
| Advises\_key (FK) |