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Date: 9/29/2024 6:45:15 PM

Subject: . -3



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mirzo.zaynidinov@gmail.com

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1.

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«A, B -> D, E».

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StudentId -> StudentName, GroupId
 GroupId -> GroupName, GroupFacultyId, FacultyId
 CourseId -> CourseName
 LecturerId -> LecturerName, LecturerFacultyId
 FacultyId -> FacultyName, FacultyDeanId
 --
 StudentId, CourseId -> LecturerId, Mark
 GroupFacultyId -> FacultyId, FacultyDeanId
 LecturerFacultyId -> FacultyId, FacultyDeanId
 --
 GroupId, CourseId -> LecturerId
FacultyDeanId -> FacultyId

2.

2.1.

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R :
 1. {StudentId, CourseId}
 2. {StudentId, CourseId} {StudentId, CourseId}
 (3.2).
 3. 2 {StudentId, CourseId} - 1 {StudentId, CourseId} -

2.2.

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«A, B, C».

StudentId, CourseId

3.

3.1. GroupId, CourseId *

«A, B, C».

GroupId, CourseId

GroupId, CourseId, GroupName, GroupFacultyId, FacultyId

GroupId, CourseId, GroupName, GroupFacultyId, FacultyId, CourseName

GroupId, CourseId, GroupName, GroupFacultyId, FacultyId, CourseName, LecturerId

GroupId, CourseId, GroupName, GroupFacultyId, FacultyId, CourseName, LecturerId, FacultyDeanId

GroupId, CourseId, GroupName, GroupFacultyId, FacultyId, CourseName, LecturerId, FacultyDeanId, FacultyName

GroupId, CourseId, GroupName, GroupFacultyId, FacultyId, CourseName, LecturerId, FacultyDeanId, FacultyName, LecturerName, LecturerFacultyId

3.2. StudentId, CourseId *

3.1.

StudentId, CourseId

StudentId, CourseId, StudentName, GroupId

StudentId, CourseId, StudentName, GroupId, CourseName

StudentId, CourseId, StudentName, GroupId, CourseName, LecturerId, Mark

StudentId, CourseId, StudentName, GroupId, CourseName, LecturerId, Mark, GroupName, GroupFacultyId, FacultyId

StudentId, CourseId, StudentName, GroupId, CourseName, LecturerId, Mark, GroupName, GroupFacultyId, FacultyId, LecturerName, LecturerFacultyId

StudentId, CourseId, StudentName, GroupId, CourseName, LecturerId, Mark, GroupName, GroupFacultyId, FacultyId, LecturerName, LecturerFacultyId, FacultyDeanId

StudentId, CourseId, StudentName, GroupId, CourseName, LecturerId, Mark, GroupName, GroupFacultyId, FacultyId, LecturerName, LecturerFacultyId, FacultyDeanId, FacultyName

3.3. StudentId, LecturerId *

3.1.

StudentId, LecturerId

StudentId, LecturerId, StudentName, GroupId

StudentId, LecturerId, StudentName, GroupId, LecturerName, LecturerFacultyId

StudentId, LecturerId, StudentName, GroupId, LecturerName, LecturerFacultyId, GroupName, GroupFacultyId, FacultyId

StudentId, LecturerId, StudentName, GroupId, LecturerName, LecturerFacultyId,

GroupName, GroupFacultyId, FacultyId, FacultyDeanId
StudentId, LecturerId, StudentName, GroupId, LecturerName, LecturerFacultyId,
GroupName, GroupFacultyId, FacultyId, FacultyDeanId, FacultyName

3.4. StudentId, FacultyDeanId *

3.1.

StudentId, FacultyDeanId
StudentId, FacultyDeanId, StudentName, GroupId,
StudentId, FacultyDeanId, StudentName, GroupId, FacultyId
StudentId, FacultyDeanId, StudentName, GroupId, FacultyId, GroupName,
GroupFacultyId
StudentId, FacultyDeanId, StudentName, GroupId, FacultyId, GroupName,
GroupFacultyId, FacultyName, FacultyDeanId

3.5. GroupName, LecturerId *

3.1.

GroupName, LecturerId
GroupName, LecturerId, GroupFacultyId, FacultyId
GroupName, LecturerId, GroupFacultyId, FacultyId, LecturerName, LecturerFacultyId
GroupName, LecturerId, GroupFacultyId, FacultyId, LecturerName, LecturerFacultyId,
FacultyDeanId
GroupName, LecturerId, GroupFacultyId, FacultyId, LecturerName, LecturerFacultyId,
FacultyDeanId, FacultyName

4.

4.1d.

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4.1r.

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1.

StudentId -> StudentName
 StudentId -> GroupId
 GroupId -> GroupName
 GroupId -> GroupFacultyId
 GroupId -> FacultyId
 CourseId -> CourseName
 LecturerId -> LecturerName
 LecturerId -> LecturerFacultyId
 FacultyId -> FacultyName
 FacultyId -> FacultyDeanId
 StudentId, CourseId -> LecturerId
 StudentId, CourseId -> Mark
 GroupFacultyId -> FacultyId
 GroupFacultyId -> FacultyDeanId
 LecturerFacultyId -> FacultyId
 LecturerFacultyId -> FacultyDeanId
 GroupId, CourseId -> LecturerId
 FacultyDeanId -> FacultyId

4.2d.

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StudentId, CourseId -> LecturerId
 StudentId, CourseId -> Mark
 GroupId, CourseId -> LecturerId

4.2.1d) StudentId, CourseId -> LecturerId

StudentId. CourseId = (CourseId, CourseName) LecturerId
 , StudentId.
 CourseId. StudentId = (StudentId, StudentName, GroupId,
 GroupName, GroupFacultyId, FacultyId, FacultyName, FacultyDeanId) LecturerId
 , CourseId.

4.2.2d) StudentId, CourseId -> Mark

StudentId. CourseId = (CourseId, CourseName) Mark
 , StudentId.
 CourseId. StudentId = (StudentId, StudentName, GroupId,
 GroupName, GroupFacultyId, FacultyId, FacultyName, FacultyDeanId) Mark
 , CourseId.

4.2.3d) GroupId, CourseId -> LecturerId

GroupId. CourseId = (CourseId, CourseName) LecturerId

GroupId

CourseId. GroupId = (GroupId, GroupName, GroupFacultyId,
FacultyId, FacultyName, FacultyDeanId) LecturerId
CourseId.

4.2r.

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1.

StudentId -> StudentName

StudentId -> GroupId

GroupId -> GroupName

GroupId -> GroupFacultyId

GroupId -> FacultyId

CourseId -> CourseName

LecturerId -> LecturerName

LecturerId -> LecturerFacultyId

FacultyId -> FacultyName

FacultyId -> FacultyDeanId

StudentId, CourseId -> LecturerId

StudentId, CourseId -> Mark

GroupFacultyId -> FacultyId

GroupFacultyId -> FacultyDeanId

LecturerFacultyId -> FacultyId

LecturerFacultyId -> FacultyDeanId

GroupId, CourseId -> LecturerId

FacultyDeanId -> FacultyId

4.3d.

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StudentId -> StudentName. StudentId = (StudentId, GroupId,
GroupName, GroupFacultyId, FacultyId, FacultyDeanId, FacultyName). StudentName

StudentId -> GroupId. StudentId = (StudentId, StudentName). GroupId

GroupId -> GroupName. GroupId = (GroupId, GroupFacultyId, FacultyId,
FacultyDeanId, FacultyName). GroupName

GroupId -> GroupFacultyId. GroupId = (GroupId, GroupName, FacultyId, FacultyName, FacultyDeanId). GroupFacultyId

GroupId -> FacultyId. GroupId = (GroupId, GroupName, GroupFacultyId, FacultyId, FacultyDeanId). FacultyId

CourseId -> CourseName. CourseId = (CourseId). CourseName

LecturerId -> LecturerName. LecturerId = (LecturerId, LecturerFacultyId, FacultyId, FacultyDeanId, FacultyName). LecturerName

LecturerId -> LecturerFacultyId. LecturerId = (LecturerId, LecturerName). LecturerFacultyId

FacultyId -> FacultyName. FacultyId = (FacultyId, FacultyDeanId). FacultyName

FacultyId -> FacultyDeanId. FacultyId = (FacultyId, FacultyName). FacultyDeanId

StudentId, CourseId -> LecturerId. (StudentId, CourseId, Mark, StudentName, GroupId, GroupName, GroupFacultyId, FacultyDeanId, FacultyId, FacultyName, LecturerName, LecturerFacultyId, CourseName, LecturerId) = (StudentId, CourseId, Mark). LecturerId

StudentId, CourseId -> Mark. (StudentId, CourseId) = (StudentId, CourseId, CourseName, StudentName, GroupId, GroupName, GroupFacultyId, FacultyDeanId, FacultyId, FacultyName, LecturerId, LecturerName, LecturerFacultyId). Mark

GroupFacultyId -> FacultyId. GroupFacultyId = (GroupFacultyId, FacultyDeanId, FacultyId). FacultyId

GroupFacultyId -> FacultyDeanId. GroupFacultyId = (GroupFacultyId). FacultyDeanId

LecturerFacultyId -> FacultyId. LecturerFacultyId = (LecturerFacultyId, FacultyDeanId, FacultyId). FacultyId

LecturerFacultyId -> FacultyDeanId. LecturerFacultyId = (LecturerFacultyId). FacultyDeanId

GroupId, CourseId -> LecturerId. (GroupId, CourseId) = (GroupId, CourseId). LecturerId

FacultyDeanId -> FacultyId. FacultyDeanId = (FacultyDeanId). FacultyId

1.

StudentId -> StudentName

StudentId -> GroupId

GroupId -> GroupName

GroupId -> GroupFacultyId

CourseId -> CourseName

LecturerId -> LecturerName

LecturerId -> LecturerFacultyId

FacultyId -> FacultyName

FacultyId -> FacultyDeanId

StudentId, CourseId -> Mark

GroupFacultyId -> FacultyDeanId

LecturerFacultyId -> FacultyDeanId

GroupId, CourseId -> LecturerId

FacultyDeanId -> FacultyId
