

Schedule and Special Note

November 15, 2017

1 Schedule

1. Draw its E-R diagram.
 - Almost Done
 - [This will be updated as other steps progress](#)
2. Give a relational representation of the E-R diagram that allows for 2 functional preserving and lossless join decompositions. Describe its functional dependencies.
 - Nov, 16th
 - [We need to modify the decomposition. Im not sure how to satisfy the "allows for 2 functional preserving and lossless join decompositions" condition](#)
3. Give the two decompositions and prove that they are lossless join and functional preserving.
 - Nov, 16th
4. Give the SQL DDLs for creating the three versions of the database.
 - Nov, 21st
5. Fill the first database with data (at least 100 columns in each table).
 - Nov, 21st

6. Give the SQL queries to copy the data from the first version into its 2 decompositions.
 - Nov, 25th
7. Propose in english 3 queries that require at least 2 table joins each and such that all tables are involved in at least 2 queries.
 - Nov, 25th
8. Propose SQL implementations of the 3 queries on all three versions of the database.
 - Nov, 30th
9. Test the time in ns for exeuting the 3 queries on each database, by running each of them 1000 times.
 - Nov, 30th

Due Dec, 1st, 2017. One day to check whole things and submit.

2 Special Note