

Designing a Database

Hands on in Access and on paper

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Athletes and Teams

- “Business Rules”
 - What the database is about
 - What things are important
 - How things relate

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Athletes and Teams

- A Database for an athletics department at a high school
- Storing details of:
 - Teams with
 - division,
 - gender,
 - coach
 - Student Athletes
- Individuals are selected for a team.
- Keep track of the points awarded to each student for participating in a sport for the awarding of school letters.
- The Database has to keep track of student Athletes over five years with any given Athlete participating in multiple sports in a given year.

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Athletes and Teams

- THINGS of Interest, include :
 - Athletes
 - Events
 - Points earned for success
 - Teams
- These THINGS are **related** as follows:
 - A Student Athlete can participate in zero, one or many TEAMS.

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Athletes and Teams

student_id	team_name
student_result_at_event	student_gender
student_points_to_date	team_description
student_points_at_event	student_address
student_first_name	coach_name
letters_sport_code	student_other_details
student_middle_name	team_other_details
letters_awarded_date	division_description
student_last_name	sport_description
team_gender	event_name
student_date_of_birth	event_start_date
event_location	event_end_date
	event_other_details

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Design the Database

- Divide into teams of three or four:
 - Design the Students and Teams database:
 - Decide what tables you would build.
 - Decide what fields you would put in each table.
 - List table names and attributes.
 - Choose primary keys.
 - List foreign keys in the foreign table.
- You have 15 minutes

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