

Relational Database Project

CIS-421

Kyle Breen-Bondie

Choose Enterprise & Description of database requirements:

A small printshop that has multiple presses with a few sales people serving many customers. The printshop offers a variety of printing capabilities like postcards, flyers, booklets, business cards, posters, banners and more. Each press has specific capabilities, while sales and customer service reps manage customer accounts and their jobs while accounting must generate invoices.

Each job has an item to be printed, which will have a type, press, a size, a stock, a quantity, pagecount, simplex or duplex, color or black and white, and other possible finishing options depending on the product. For example, business cards or flyers have the option to be gloss coated, or a set of flyers may be stitched, or a banner can be grommited.

Presses are tricky and have several characteristics like max sheet size, stock capabilities, max speed, color or black and white, inline operations and more.

The database is set up with several tables (and in truth could be more complex with things like fold types, additional types of printing and machines to accompany it, a system to deal with proofs, graphic design, quotes not to mention page layout and n-up printing and cutting.) There is a lot of inter-dependency, especially when dealing with

the presses and paperstock. Size of stock, thickness, finishes and more all play a role in determining what press can run a given job.

A customer within the database is assigned one salesperson, who would have many customers. Each job within the system has a date received and a due date and is assigned to a customer. A job has at least one but may have several different items within it, each its own print item (a flyer, a book, a poster) with its associated information to print it.

A press will have size and stock weight restrictions as well black and white vs color, and specific stock-type restrictions.

Last, invoices are generated for jobs and then eventually the job can be updated with the closed status.