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Our final project will be a magazine-subscription web application that enables customers to sign up and pay for magazine subscriptions. There will be synthetic data populated in the magazine table. Everything else will be created from activity on the front-end UI (sample data is on the sheet called “MAGAZINE” in the attached Excel file). The magazines table will enable customers to select which magazine, term, etc. As customers select what magazines they want to subscribe to and pay, entries will be added to the corresponding tables. A customer supplies their payment information upon signing up for an account. The application will also allow customers to lookup their existing subscriptions to change their addresses & pay for renewals.

The plan of developing the application is to first create the data (one table only) and the MySQL tables. Next, the SQL queries will be created and tested. Finally, a frontend UI will be developed that will interact with the data. We still need to determine if we would enable account level access like passwords. An initial cut of the tables we may need is below:

|  |  |  |
| --- | --- | --- |
|  | MAGAZINE SUBSCRIPTIONS |  |
|  |  |  |
| table 1 | CUSTOMERS |  |
| primary key | CUSTID |  |
|  | Start date |  |
|  | lastname |  |
|  | firstname |  |
|  | record create timestamp |  |
|  | record update timestamp |  |
|  |  |  |
| table 2 | CUSTOMER CONTACT INFO |  |
| primary key | CUST-CONT-REC-NUM | sequential number |
| foreign key | CUSTID |  |
|  | start date |  |
|  | end date | null if active |
|  | record status | active, deleted |
|  | contact type | Mailing or Billing |
|  | street address |  |
|  | city |  |
|  | state |  |
|  | zip code |  |
|  | phone number primary |  |
|  | phone number secondary  email address |  |
|  | record create timestamp |  |
|  | record update timestamp |  |
|  |  |  |
| table 3 | MAGAZINES | team would fill this table which would be used by the front end |
| primary key | MAGID | sequential number |
|  | Magazine name |  |
|  | Subscription duration | 6, 12, 18, 24 |
|  | Subscription price | $ |
|  | start date |  |
|  | end date | null if active |
|  | record status | active, expired |
|  | record create timestamp |  |
|  | record update timestamp |  |
|  |  |  |
| table 4 | SUBSCRIPTIONS |  |
| primary key | SUBID | sequential number |
| foreign key | CUSTID |  |
| foreign key | MAGID |  |
|  | Magazines Mailed | counter begins with 0 |
|  | start date | first mailed date |
|  | end date | last mailed date or null if not done |
|  | record status | active, expired |
|  | record create timestamp |  |
|  | record update timestamp |  |
|  |  |  |
| table 5 | PAYMENTS |  |
| primary key | PAYID | sequential number |
| foreign key | CUSTID |  |
| foreign key | MAGID |  |
|  | payment date |  |
|  | payment amount |  |
|  | payment type | credit or debit |
|  | card number |  |
|  | card expiration date |  |
|  | card code |  |
|  | record create timestamp |  |
|  | record update timestamp |  |