

문단마다 EDR에 쓰일 정보 정리

1.The LibSQL has been serving the ABC University community since 1900 and has recently received a large donation from a group of the university's alumni. The donation aims to help the library rework its currently facilities and technologies. Your work over the past few months to create a new database for the proposed eShop has been very well received. A recent meeting with the Board of Directors discussed expanding the database to include more information.

팩트: 기부 받아서 데이터베이스 만드는거임 딱히 중요 X

2.The company orders books in bulk directly from publishers. Currently the company only accepts books from 15 different publishers. The company is looking to increase this number with the eShop and partner with publishers in different areas to diversify their book catalogue. As such, Eskue keeps record of each publisher they partner with including the publishers, name, state, country, and date established. The company also includes publishers they have yet to partner with in their systems. These publishers do not have any books in the shop.

팩트: Company accepts books from 15 different publisher, but want to increase the numb with other method. As such, Eskue keeps record of each publisher they partner with including the publishers, name, state, country, and date established. There are also some publishers that are not yet partners.

3.Currently, LibSQL offers around 600 books to its customers branching into a wide variety of genres. Due to the large catalog, the company keeps record of each book's title, author, publisher, publication date, pages, language, genre, ISBN, type (e.g., hardback) and price of the book in order to provide more search methods for customers. Note however that some books do not have a specific publication date due to circumstances surrounding their inception. With such a large catalog it's very possible that some books have never been purchased. In eShop users can perform two types of transaction: purchase and rent. Books that have been purchased will be purchased for the price indicated on each book. LibSQL's systems denote a transaction as the exchange of a single book. Therefore, a user who purchases 30 different books has performed 30 transactions. However, a user who purchases 15 of one book and 15 of another has only performed 2 transactions. Every transaction is part of a larger checkout_cart. A checkout_cart can have many transactions, but a transaction is only part of one checkout. The checkout_cart includes the order date, delivery date, payment method, and associated user.

팩트: LibSQL offers books to customer with variety of genres. Due to the large catalog, there are books with title, author, publisher, publication date, pages, language, genre, ISBN, type(ebook or hardbook), and price. Some books do not have a specific publication date. Because there are so many books, some books have never been purchased. In ESHOP, users can use two types of transaction: prchase and rent. 1 book purchase = 1 transaction.
-> 30 different books = 30 transactions. BUT many of same book = 1 transaction.
Checkout_cart can have many transactions with order date, delivery date, payment method, and associated user.

check out cart

1. order date
2. delivery date
3. payment method
4. associated user

purchase

1. purchase id (PK)

rent

1. rent_id (PK)

4.Before checking out, every customer must make an account in order to become a user of eShop. Account information is used to keep a record of a user's history and preferences. The required information for an account is first name, last name, date of birth, street address, state, and zip code. The system also keeps a record of a user's registration date to determine the account age. Optionally, users can provide their gender and select their favorite author which is used for promotions around the holidays.

☞: before checking out, customers must make an account. keep record user history and preference. first name, last name, date of birth, street address, state, zipcode. also keeps the registration date to determine account age. favorite author and user's gender is optional.

5.After creating an account, users may be prompted to sign-up for the SQL+ membership program. The program is a subscription service known as SQL+ where customers pay an annual fee and receive a plethora of discounts, offers, and promotions throughout the year. The SQL+ member list is recorded separately from the user records. Currently members can subscribe to one of the following plans:

1. Monthly - \$9.99 paid monthly from the date of subscription.
2. Biannual - \$49.99 paid every 6 months from the date of subscription.
3. Annual - \$69.99 paid every 12 months from the date of subscription.
4. Biennial - \$130 paid every 24 months from the date of subscription.
5. Student - \$4.99 paid monthly from the date of subscription.
6. Special - \$40 paid every 12 months. (Only offered during holiday specials)

☞: customers pay fee to be in sql+ membership and receive plethora of discounts, offers, and promotions throughout the year. SQL+ member list is separate from customer user records. SQL+ membership = type, duration, price. SQL+ member list = id, name, membership_id, date of registration, preferred payment method, autopay O.X

6.Each member has a preferred payment method associated with them that was used to subscribe. If the member chose to enable autopay this payment method will be used at the end of the plan's term based on their initial subscription date to resubscribe the user. If there is no payment method on file for the member their subscription will terminate after the plan's term.

說明: preferred payment method, if member chose to enable autopay = end of the plan's term WHERE initial subscription date. if PAYMENT != payment method, their subs. will terminate after the plan's term.

7. Valid payment methods include Credit, Debit, PayPal, or Membership. After each purchase or during special events and promotions, members are able to earn promo points. These points can be redeemed to purchase or rent books free of charge. Any checkout that indicates the payment method was membership means that the items in the cart were purchased with points.

說明: payment methods credit, Debit, PayPal, or Membership. After each purchase or events members will get promo points

1. Publishers Table:	3. Users Table:	5. Transactions Table:
<ul style="list-style-type: none"> • PublisherID (Primary Key) • Name • State • Country • DateEstablished 	<ul style="list-style-type: none"> • UserID (Primary Key) • FirstName • LastName • DateOfBirth • StreetAddress • State • ZipCode • RegistrationDate • Gender • FavoriteAuthor 	<ul style="list-style-type: none"> • TransactionID (Primary Key) • UserID (Foreign Key referencing Users) • ISBN (Foreign Key referencing Books) • TransactionType (Purchase/Rent) • TransactionDate • CheckoutCartID (Foreign Key referencing CheckoutCarts)
2. Books Table:	4. SQL+ Memberships Table:	6. CheckoutCarts Table:
<ul style="list-style-type: none"> • ISBN (Primary Key) • Title • Author • PublisherID (Foreign Key referencing Publishers) • PublicationDate • Pages • Language • Genre • Type (e.g., hardback) • Price 	<ul style="list-style-type: none"> • MemberID (Primary Key) • UserID (Foreign Key referencing Users) • SubscriptionPlan • PreferredPaymentMethod • AutoPayEnabled 	<ul style="list-style-type: none"> • CheckoutCartID (Primary Key) • OrderDate • DeliveryDate • PaymentMethod • UserID (Foreign Key referencing Users)
7. PaymentMethods Table:		
<ul style="list-style-type: none"> • PaymentMethodID (Primary Key) • UserID (Foreign Key referencing Users) • MethodType (Credit, Debit, PayPal, Membership) 		
8. PromoPoints Table:		
<ul style="list-style-type: none"> • PromoPointsID (Primary Key) • UserID (Foreign Key referencing Users) • PointsEarned • PointsRedeemed • TransactionID (Foreign Key referencing Transactions) 		