

Sean Dube
Assignment 2
Database Management Systems
02/11/2022

Task 1: Translation

Relational Schemas:

- customers(cust_id, name, email, cstreet, city, postcode, country)
- cust_phone(cust_id, type, number)
- book(isbn, title, author, publisher)
- genre(isbn, genre_name)
- edition(cust_id, edition, type, price, quantity in stock, isbn)
- supplier(id, name, account number, phone)
- order(id, street, city, postcode, country, date ordered, date delivered, cust_id)
- Reviews(cust_id, book_id, rating)
- Contains(order_id, edition, amount)
- Supplies(supplier_id, edition, supply_price)
- supplierphone(supplier_id, phone_number)

Task 2: Output from 3 New Queries and 2 New Views

ABC cust_id	ABC name	ABC email
12347	Reiss Nelson	rnelson@st.andrews.co.uk
12349	Gabriel Jesus	gjesus@standrews.co.uk
12352	Mikel Arteta	marteta@standrews.co.uk
12353	Abou Diaby	injuryprone@hospital.co.uk

1. List all customer's id, name and email that live on 'Arsenal Street'.

	ABC title	ABC publisher	ABC author
1	50 SHADES OF GREY	Vintage Books	E.L James
2	Introduction to SQL	Ultimate Books	Sean Dube
3	How to Play Football	Bantam	Lionel Messi
4	How to fake SQL data	Ultimate Books	Sean Dube
5	Wenger: My Life and Lessons in Red & White	W&N	Arsene Wenger
6	Behind EA Sports	Ultimate Books	Sean Dube
7	How did I end up in America?	Dube Mercantile	Christopher Dub
8	Burn the boats	Dube Mercantile	Sean Dube

2.

List the title, publisher, and author of all books where the author's name has an S in it.

ABC book_id	123 quantity_in_stock
099233132	3
123245325	9
278456789	9
234554241	3

3.

List book_id and quantity in stock for

books with an edition greater than 5 and price is at least 10 dollars.

	ABC supplier_id	ABC supplier_name	ABC phone_number
1	7855322	Amazon	6304985621
2	4567211	WHSMITH	02086921432
3	6722344	Bobs Books	3016581234
4	8231111	Gins Books	3012413211
5	5462422	Walmart	6302231091
6	1231233	Waterstones	02087431231
7	3423111	Barnes and Noble	6304541321
8	2313111	Argos	02087113321
9	3413411	Marks and Spencer	02089913341
10	9090111	Big Lots	6304562341

4.

View with

Supplier ID, Supplier Name, and Phone Number.

	ABC edition	123 total_stock
1	Audiobook	8
2	Hardcover	27
3	Paper Cover	546
4	Paperback	17

5.

View with Total Inventory for Per Edition

Type

I really enjoyed this assignment as there was a larger focus on programming in SQL and converting ER diagrams into a database. The process to convert the diagram into relational schema went well, and I think I covered all the different aspects of the diagram. I felt that I did not have much difficulty creating the tables and insert data in the SQL script. I downloaded Dbeaver on my mac and it has been working well! The most challenging part was coming up with fake entries to cover the questions proposed in the query section. Another really challenging part was performing the last two required queries in Task 3. They took some unpacking and I had to go back to lecture notes and the textbook to find a solution. Whenever I encountered an error in Dbeaver, I would read the error message, and then try to debug based on what I was told. I didn't have any terrible errors; luckily, the table creation and data insertion portion of the assignment was fairly swift but tedious. If I were to approach this assignment differently, I would have started much earlier to give myself more time, but I am still able to submit on time.