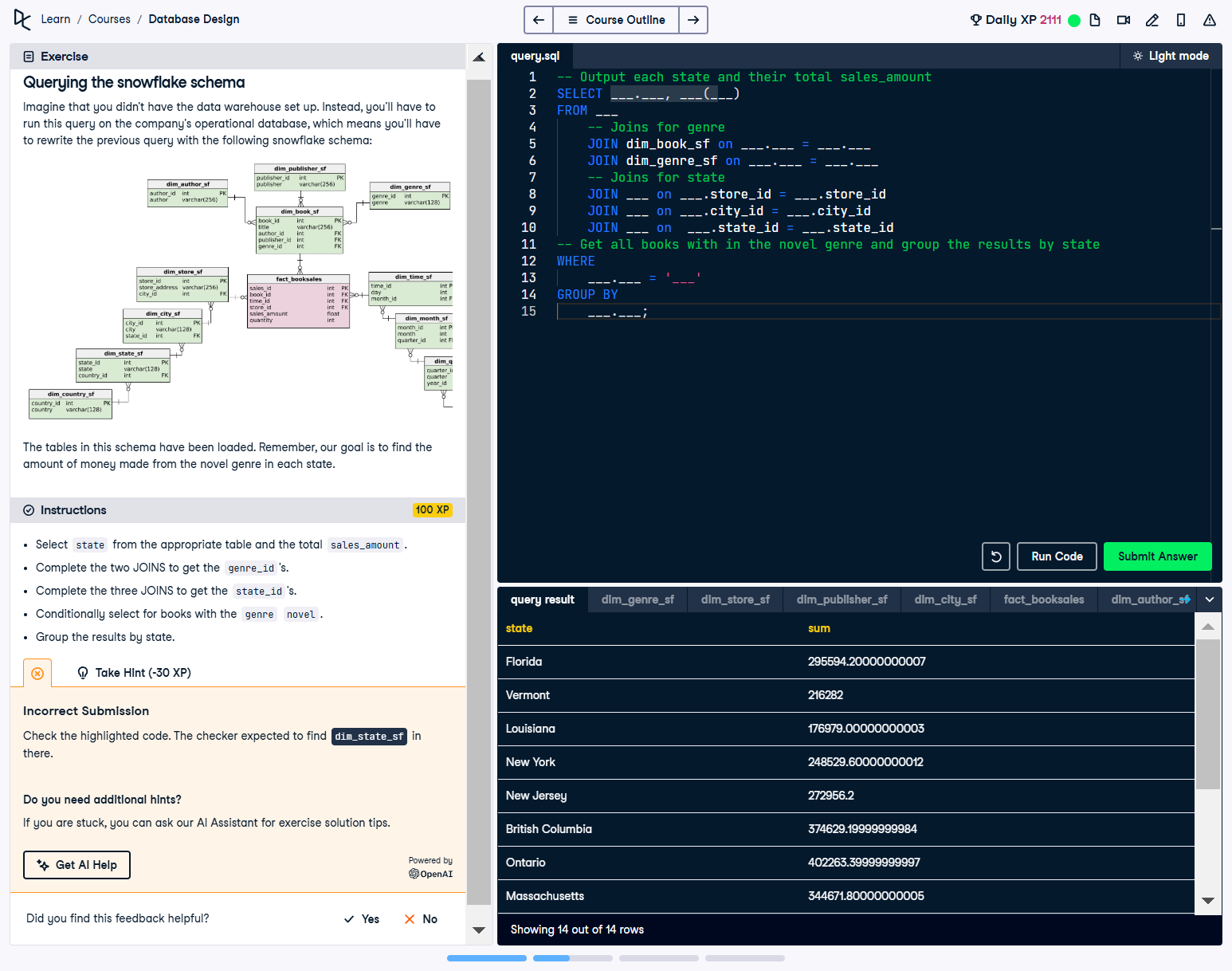
# Querying the Snowflake Schema (Final Corrected)



## Question

Imagine that you didn’t have the data warehouse set up. Instead, you’ll have to run the query on the company’s operational database, which means you’ll have to rewrite the previous query with the following snowflake schema:  
  
The tables in this schema have been loaded. Remember, our goal is to find the amount of money made from the novel genre in each state.

Instructions:  
1. Select state from the appropriate table and the total sales\_amount.  
2. Complete the two JOINS to get the genre\_id’s.  
3. Complete the three JOINS to get the state\_id’s.  
4. Conditionally select for books with the genre 'novel'.  
5. Group the results by state.

## Final Corrected SQL Solution

-- Output each state and their total sales\_amount  
SELECT dim\_state\_sf.state, sum(sales\_amount)  
FROM fact\_booksales  
 -- Joins for the genre  
 JOIN dim\_book\_sf on fact\_booksales.book\_id = dim\_book\_sf.book\_id  
 JOIN dim\_genre\_sf on dim\_book\_sf.genre\_id = dim\_genre\_sf.genre\_id  
 -- Joins for the state   
 JOIN dim\_store\_sf on fact\_booksales.store\_id = dim\_store\_sf.store\_id   
 JOIN dim\_city\_sf on dim\_store\_sf.city\_id = dim\_city\_sf.city\_id  
 JOIN dim\_state\_sf on dim\_city\_sf.state\_id = dim\_state\_sf.state\_id  
-- Get all books with in the novel genre and group the results by state  
WHERE   
 dim\_genre\_sf.genre = 'novel'  
GROUP BY  
 dim\_state\_sf.state;

## Answer Explanation

1. \*\*SELECT and SUM():\*\* Retrieves the state from dim\_state\_sf and calculates the total sales\_amount for each state.  
2. \*\*JOIN Statements:\*\*  
 - Links fact\_booksales with dim\_book\_sf to access book details via book\_id.  
 - Links dim\_book\_sf with dim\_genre\_sf to get genre information via genre\_id.  
 - Links fact\_booksales with dim\_store\_sf to access store information via store\_id.  
 - Links dim\_store\_sf with dim\_city\_sf to retrieve city information via city\_id.  
 - Links dim\_city\_sf with dim\_state\_sf to get state information via state\_id.  
3. \*\*WHERE Clause:\*\* Filters results to include only books in the 'novel' genre.  
4. \*\*GROUP BY:\*\* Groups the results by state to aggregate total sales for each state.