#Challenge 1

#Step 1

Select au\_id, ta.title\_id, t.advance \* ta.royaltyper / 100 AS advance, t.price \* s.qty \* t.royalty / 100 \* ta.royaltyper / 100 AS sales\_royalty

From titleauthor ta

INNER JOIN titles t

ON ta.title\_id = t.title\_id

INNER JOIN sales s

ON t.title\_id = s.title\_id;

#Step 2

Select title\_id, au\_id, advance, SUM(sales\_royalty) AS Agregated\_royalties

From (

Select au\_id, ta.title\_id, t.advance \* ta.royaltyper / 100 AS advance, t.price \* s.qty \* t.royalty / 100 \* ta.royaltyper / 100 AS sales\_royalty

From titleauthor ta

INNER JOIN titles t

ON ta.title\_id = t.title\_id

INNER JOIN sales s

ON t.title\_id = s.title\_id

) as first\_step

Group by au\_id,title\_id,advance;

#Step3

Select au\_id, (advance+Agregated\_royalties) AS Profit

From(

Select title\_id, au\_id, advance, SUM(sales\_royalty) AS Agregated\_royalties

From (

Select au\_id, ta.title\_id, t.advance \* ta.royaltyper / 100 AS advance, t.price \* s.qty \* t.royalty / 100 \* ta.royaltyper / 100 AS sales\_royalty

From titleauthor ta

INNER JOIN titles t

ON ta.title\_id = t.title\_id

INNER JOIN sales s

ON t.title\_id = s.title\_id

) as first\_step

Group by au\_id,title\_id,advance

) as second\_step

ORDER BY Profit DESC

LIMIT 3;

#Challenge 2

Create Temporary Table publications.tilman\_first\_step

Select au\_id, ta.title\_id, t.advance \* ta.royaltyper / 100 AS advance, t.price \* s.qty \* t.royalty / 100 \* ta.royaltyper / 100 AS sales\_royalty

From titleauthor ta

INNER JOIN titles t

ON ta.title\_id = t.title\_id

INNER JOIN sales s

ON t.title\_id = s.title\_id;

Create Temporary Table publications.tilman\_second\_step

Select title\_id, au\_id, advance, SUM(sales\_royalty) AS Agregated\_royalties

From tilman\_first\_step

Group by au\_id,title\_id,advance;

Create Temporary Table publications.tilman\_result

Select au\_id, (advance+Agregated\_royalties) AS Profit

From tilman\_second\_step

ORDER BY Profit DESC

LIMIT 3;

#Challenge 3

#Removed the Limit 3 from the table before and saved it as publications.tilman\_result2

Create Temporary Table publications.tilman\_first\_step

Select au\_id, ta.title\_id, t.advance \* ta.royaltyper / 100 AS advance, t.price \* s.qty \* t.royalty / 100 \* ta.royaltyper / 100 AS sales\_royalty

From titleauthor ta

INNER JOIN titles t

ON ta.title\_id = t.title\_id

INNER JOIN sales s

ON t.title\_id = s.title\_id;

Create Temporary Table publications.tilman\_second\_step

Select title\_id, au\_id, advance, SUM(sales\_royalty) AS Agregated\_royalties

From tilman\_first\_step

Group by au\_id,title\_id,advance;

Create Temporary Table publications.tilman\_result2

Select au\_id, (advance+Agregated\_royalties) AS Profit

From tilman\_second\_step

ORDER BY Profit DESC;

#Create Temporary Table publications.tilman\_chall3

Select au\_id, SUM(Profit)

From tilman\_result2

Group by au\_id;