

Self-Evaluation Rubric for the Module 4 Assignment

Self-evaluation allows a learner to make an honest assessment of their knowledge and skills about a module. You should apply the rubric to assess your performance so that you can learn from your mistakes. An error is an opportunity to correct a misunderstanding of a concept, problem statement, or software/language feature. Learning from mistakes is an important key to success. You should consider mistakes as an essential element of your learning process. If you doubt the importance of learning from mistakes, please search under “learning from mistakes” to read about the benefits of learning from mistakes.

Before using the grading rubric, each problem should meet basic requirements for valid syntax and submission artifacts. If a problem has syntax errors, you should correct errors before beginning the self-evaluation. Use statements shown in the slides and class examples to help correct your syntax errors. For each statement, submission artifacts are the SQL statement and snapshot of the statement’s execution showing some rows.

After complying with the basic requirements for each problem, you should apply the grading rubric in Tables 1 to 12. For each problem, you should note each error following rubric elements and the solution provided in a separate document. Be honest in your assessment so that you learn from your mistakes. If you have major errors, you should rework problems with errors without seeing the solution and then reassess your revised solutions. You should see improvement on your second attempt along with an understanding of your errors.

Table 1: Rubric for Self-Evaluation of Problem 1

Rubric Element	Error Type	Comments
Target table	Major	<i>SSItem</i> table after INTO keyword
Source table	Major	<i>SSItemChanges1</i> after USING keyword
ON clause	Major	Join condition using ItemId from both tables
MATCHED clause	Medium	UPDATE statement with 4 columns
NOT MATCHED clause	Medium	INSERT statement with 5 columns
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 2: Rubric for Self-Evaluation of Problem 2

Rubric Element	Error Type	Comments
Target table	Major	<i>SSItem</i> table after INTO keyword
Source table	Major	<i>SSItemChanges2</i> after USING keyword
ON clause	Major	Join condition using <i>ItemId</i> from both tables
MATCHED clause	Medium	UPDATE statement with 4 columns and DECODE functions
NOT MATCHED clause	Medium	INSERT statement with 5 columns
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 3: Rubric for Self-Evaluation of Problem 3

Rubric Element	Error Type	Comments
First WHEN clause and INTO clause	Major	SalesYear = 2018 INTO ProductSales2018 with 4 columns
Second WHEN clause and INTO clause	Major	SalesYear = 2019 INTO ProductSales2019 with 4 columns
Third WHEN clause and INTO clause	Major	SalesYear = 2020 INTO ProductSales2020 with 4 columns
Fourth WHEN clause and INTO clause	Major	SalesYear = 2021 INTO ProductSales2021 with 4 columns
SELECT clause	Medium	ProductSale1
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 4: Rubric for Self-Evaluation of Problem 4

Rubric Element	Error Type	Comments
First WHEN clause and INTO clause	Major	SalesYear = 2018 INTO ProductSales2018 with 4 columns
Second WHEN clause and INTO clause	Major	SalesYear = 2019 INTO ProductSales2019 with 4 columns
Third WHEN clause and INTO clause	Major	SalesYear = 2020 INTO ProductSales2020 with 4 columns
Fourth WHEN clause and INTO clause	Major	SalesYear = 2021 INTO ProductSales2021 with 4 columns
SELECT clause	Medium	ProductSale1
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability
Equivalent rows processed	Minor	Statement indicating identical as conditions are mutually exclusive

Table 5: Rubric for Self-Evaluation of Problem 5

Rubric Element	Error Type	Comments
First WHEN clause and INTO clause	Major	(Qtr1+Qtr2+Qtr3+Qtr4 < 4000) INTO YEAR_LOW_SALES with 3 columns
Second WHEN clause and INTO clause	Major	(Qtr1+Qtr2+Qtr3+Qtr4 >= 4000 AND Qtr1+Qtr2+Qtr3+Qtr4 < 7000) INTO YEAR_MID_SALES with 3 columns
Third WHEN clause and INTO clause	Major	ELSE INTO YEAR_MID_SALES with 3 columns
SELECT clause	Medium	ProductSale2
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 6: Rubric for Self-Evaluation of Problem 6

Rubric Element	Error Type	Comments
First WHEN clause and INTO clause	Major	(Qtr1+Qtr2+Qtr3+Qtr4 < 4000) INTO YEAR_LOW_SALES with 3 columns
Second WHEN clause and INTO clause	Major	(Qtr1+Qtr2+Qtr3+Qtr4 >= 4000 AND Qtr1+Qtr2+Qtr3+Qtr4 < 7000) INTO YEAR_MID_SALES with 3 columns
Third WHEN clause and INTO clause	Major	ELSE INTO YEAR_MID_SALES with 3 columns
SELECT clause	Medium	ProductSale2
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability
Equivalent rows processed	Minor	Statement indicating identical as conditions are mutually exclusive

Table 7: Rubric for Self-Evaluation of Problem 7

Rubric Element	Error Type	Comments
Target table	Major	<i>Mobile_Bill</i> table after INTO keyword
Source table	Major	<i>Mobile_Usage</i> after USING keyword
ON clause	Major	(<i>Mobile_Bill</i> .CustID = <i>Mobile_Usage</i> .CustID)
MATCHED clause	Medium	UPDATE statement with 2 columns
NOT MATCHED clause	Medium	INSERT statement with 3 columns
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 8: Rubric for Self-Evaluation of Problem 8

Rubric Element	Error Type	Comments
First WHEN clause and INTO clause	Major	(CurrentAmt >= 150 INTO Mobile_Gold with 5 columns
Second WHEN clause and INTO clause	Major	(CurrentAmt >= 100 INTO Mobile_Silver with 5 columns
Third WHEN clause and INTO clause	Major	ELSE INTO Mobile_Bronze with 3 columns
SELECT clause	Medium	<i>Mobile_Customer</i>
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 9: Rubric for Self-Evaluation of Problem 9

Rubric Element	Error Type	Comments
First WHEN clause and INTO clause	Major	(CurrentAmt >= 150 INTO Mobile_Gold with 5 columns
Second WHEN clause and INTO clause	Major	(CurrentAmt >= 100 INTO Mobile_Silver with 5 columns
Third WHEN clause and INTO clause	Major	ELSE INTO Mobile_Bronze with 3 columns
SELECT clause	Medium	<i>Mobile_Customer</i>
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability
Additional rows processed	Minor	Statement indicating additional rows as conditions are not mutually exclusive

Table 10: Rubric for Self-Evaluation of Problem 10

Rubric Element	Error Type	Comments
INSERT INTO clause	Major	<i>SSItem</i> table with 5 columns
SELECT clause	Major	<i>SSItemChanges1</i> with 5 columns
ON CONFLICT clause	Major	<i>ItemId</i>
DO UPDATE clause	Medium	SET keyword with 4 columns
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 11: Rubric for Self-Evaluation of Problem 11

Rubric Element	Error Type	Comments
INSERT INTO clause	Major	<i>SSItem</i> table with 5 columns
SELECT clause	Major	<i>SSItemChanges1</i> with 5 columns
ON CONFLICT clause	Major	<i>ItemId</i>
DO UPDATE clause	Medium	SET keyword with 4 columns using CASE functions with NOT NULL conditions
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability

Table 12: Rubric for Self-Evaluation of Problem 12

Rubric Element	Error Type	Comments
INSERT INTO clause	Major	<i>SSItem</i> table with 5 columns
SELECT clause	Major	<i>SSItemChanges1</i> with 5 columns
ON CONFLICT clause	Major	<i>ItemId</i>
DO UPDATE clause	Medium	SET keyword with 4 columns using CASE functions with conditions on default values
Syntax	Major	Valid syntax
Formatting	Minor	Indentation and line breaks to improve readability