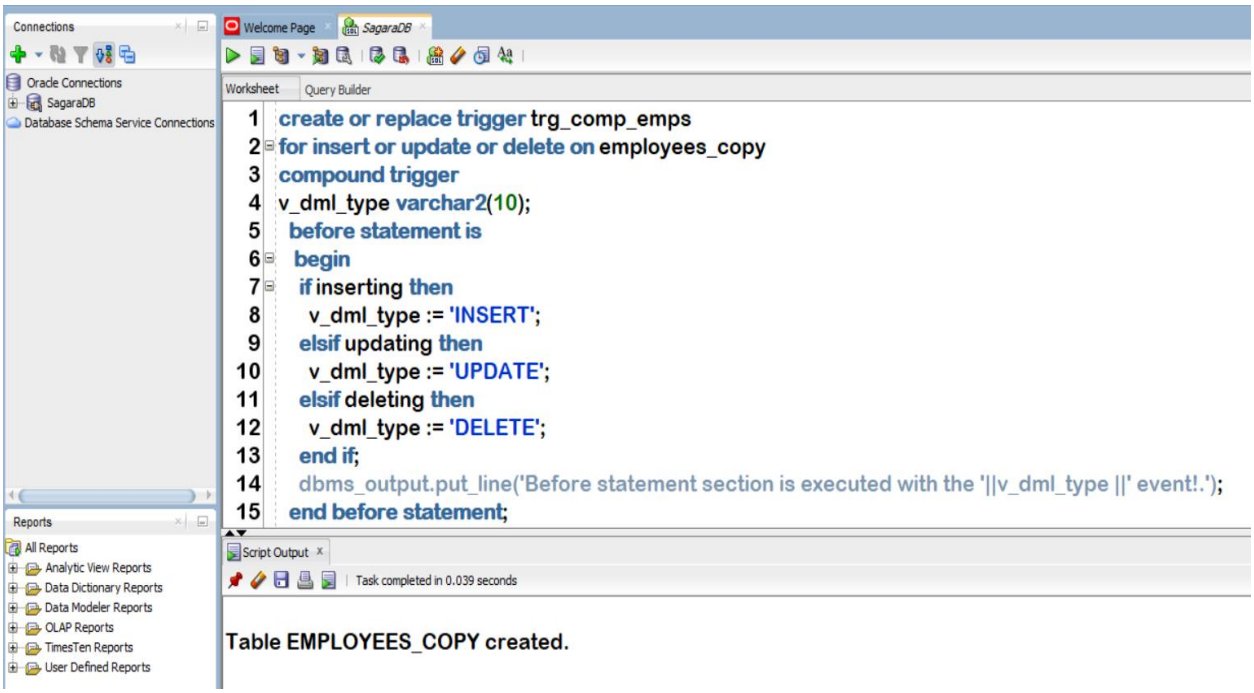
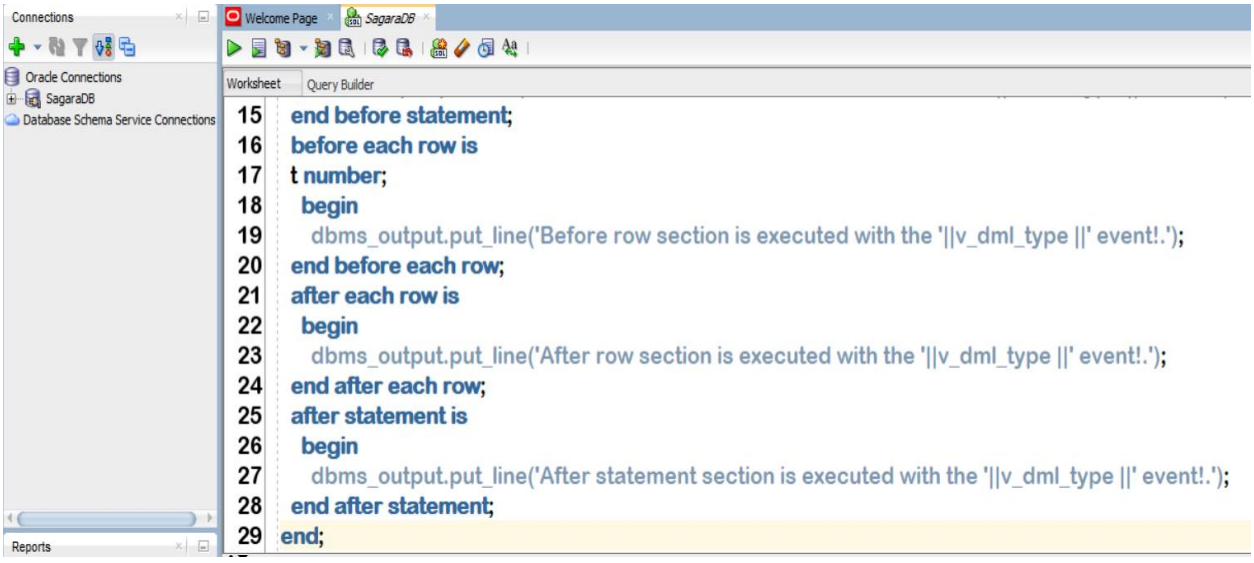
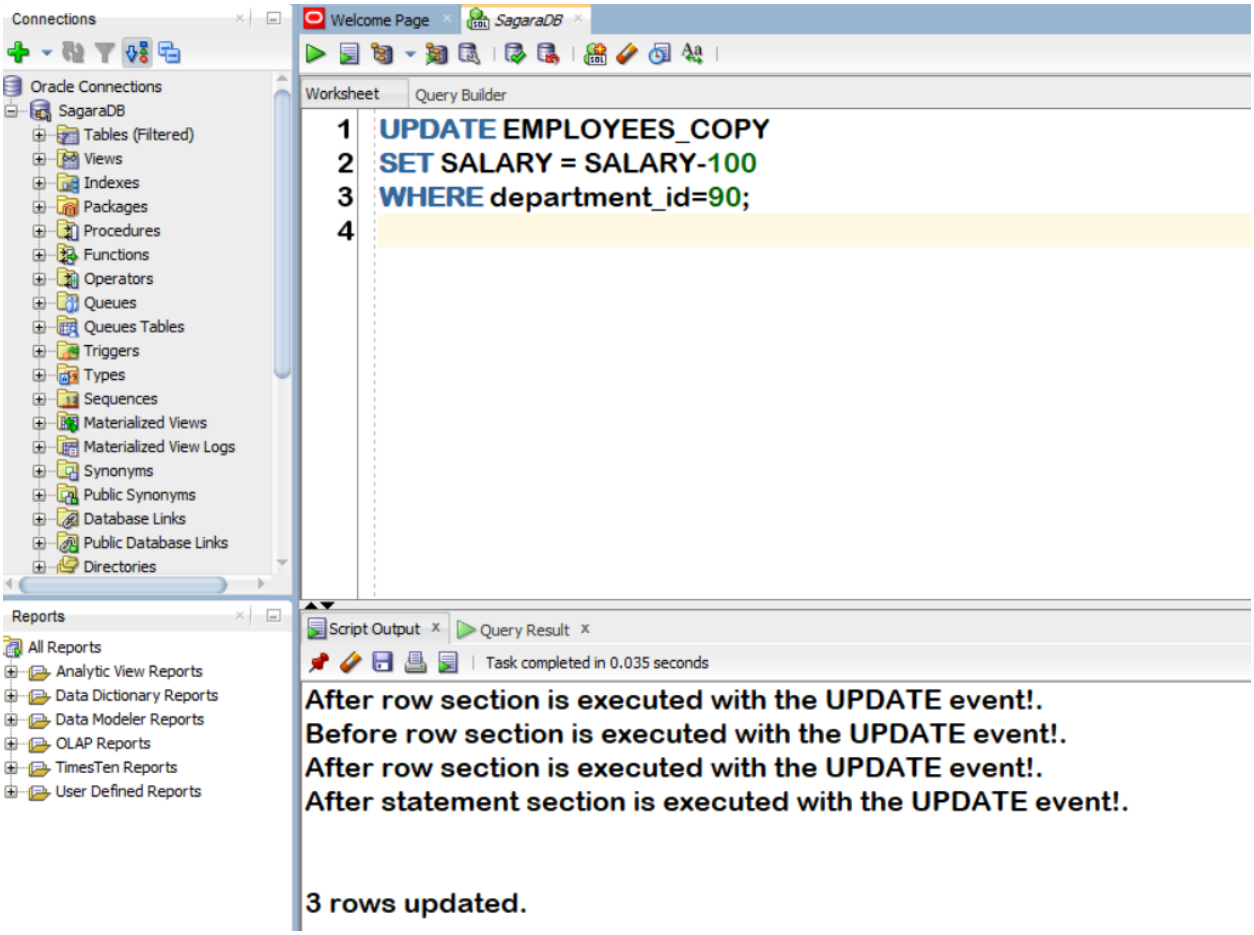
Week 11 – PL/SQL Labs

Compound Trigger



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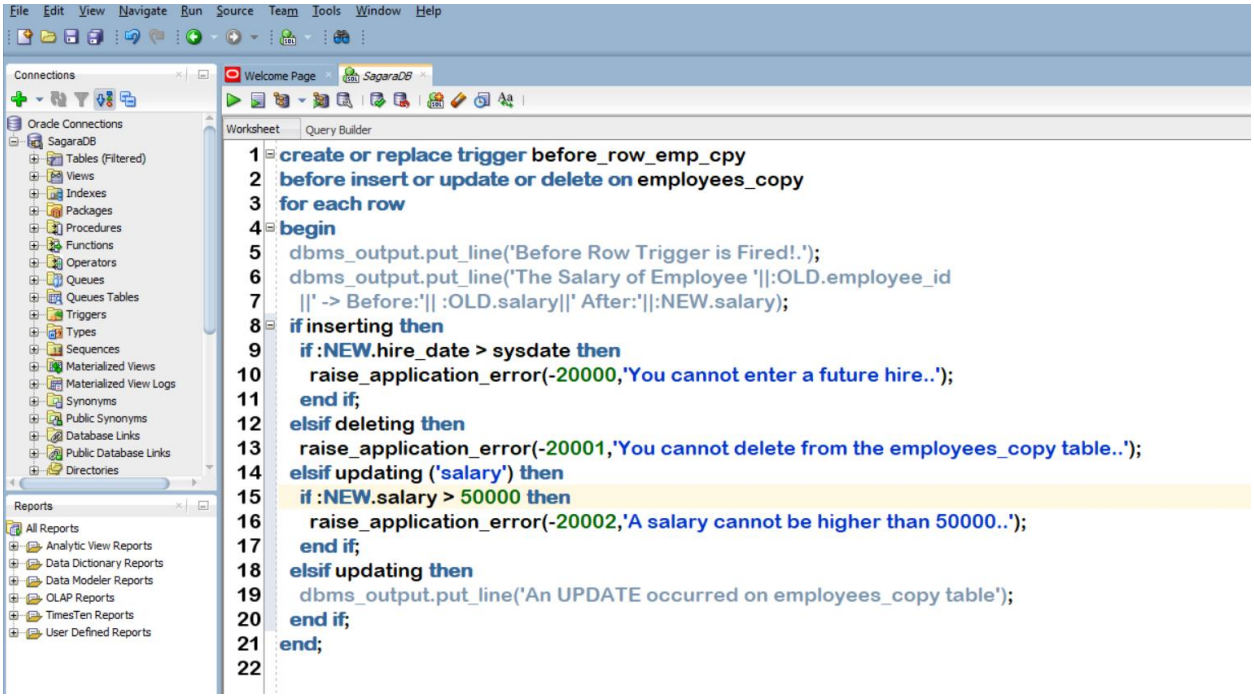
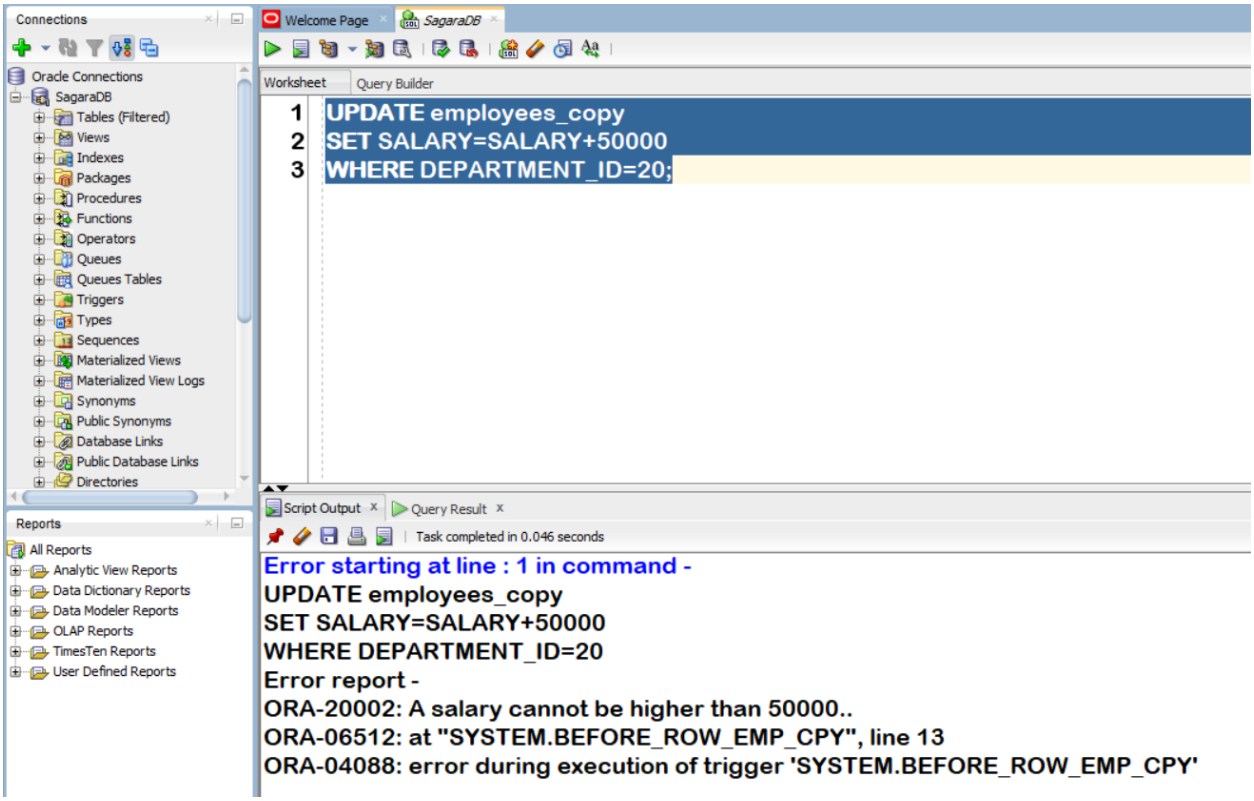
Worksheet
Query Builder
1 UPDATE EMPLOYEES_COPY
2 SET SALARY = SALARY-100
3 WHERE department_id=90;
4
Script Output
Query Result
Task completed in 0.035 seconds
After row section is executed with the UPDATE event!.
Before row section is executed with the UPDATE event!.
After row section is executed with the UPDATE event!.
After statement section is executed with the UPDATE event!.
3 rows updated.

Raise Application Error



Now try to increase the salary by 50000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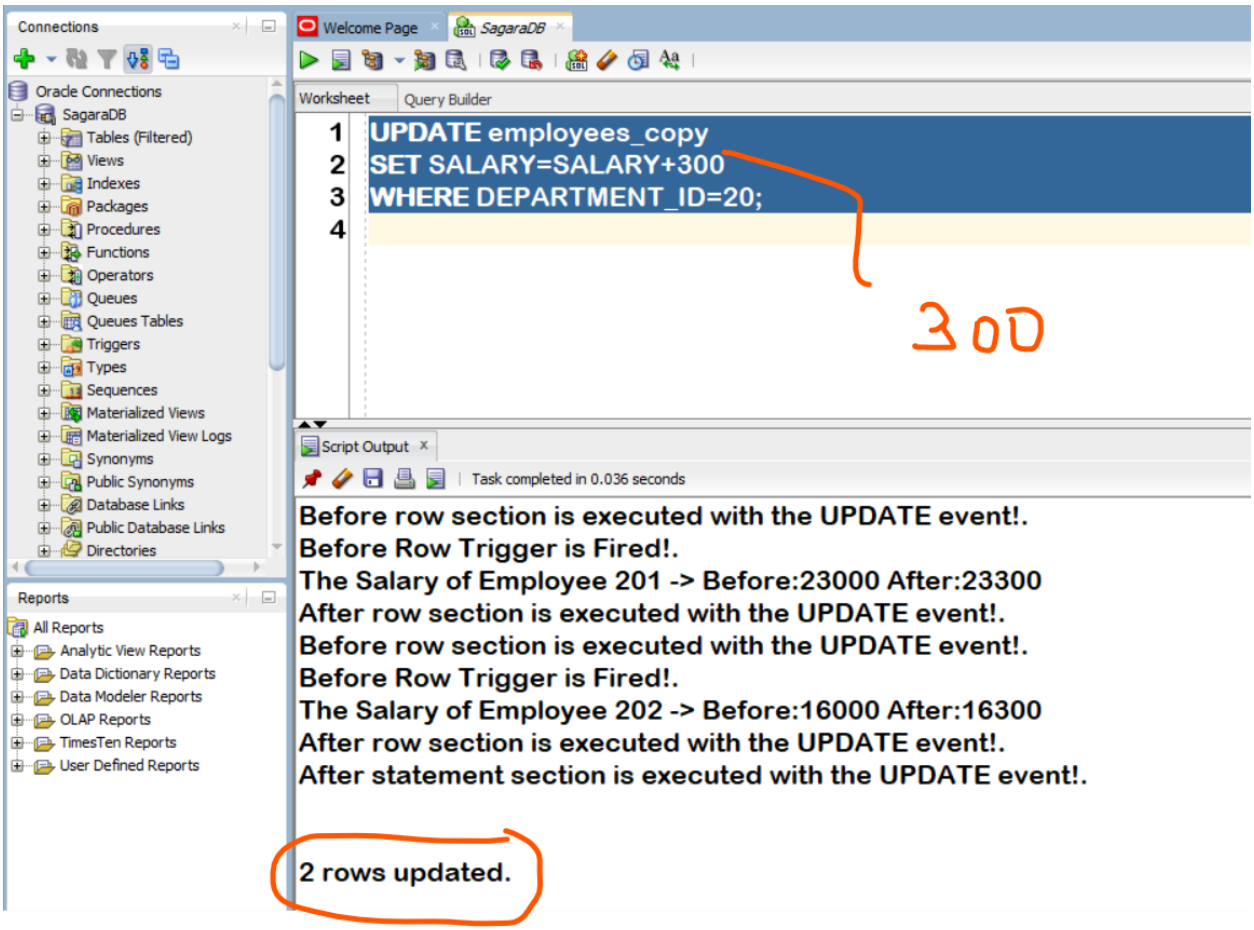
Query Builder
1 UPDATE employees_copy
2 SET SALARY=SALARY+50000
3 WHERE DEPARTMENT_ID=20;
Script Output
Query Result
Task completed in 0.046 seconds
Error starting at line : 1 in command -
UPDATE employees_copy
SET SALARY=SALARY+50000
WHERE DEPARTMENT_ID=20
Error report -
ORA-20002: A salary cannot be higher than 50000..
ORA-06512: at "SYSTEM.BEFORE_ROW_EMP_CPY", line 13
ORA-04088: error during execution of trigger 'SYSTEM.BEFORE_ROW_EMP_CPY'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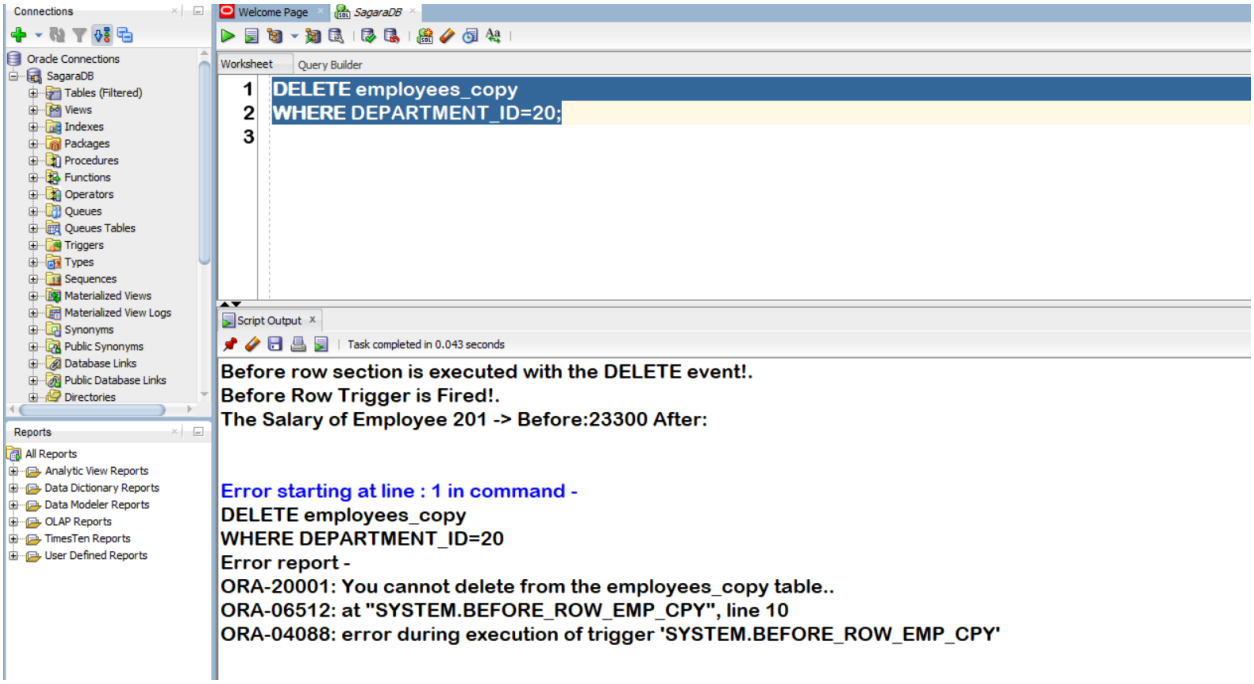
Worksheet
Query Builder
1 UPDATE employees_copy
2 SET SALARY=SALARY+300
3 WHERE DEPARTMENT_ID=20;
4
300
Script Output
Task completed in 0.036 seconds
Before row section is executed with the UPDATE event!.
Before Row Trigger is Fired!.
The Salary of Employee 201 -> Before:23000 After:23300
After row section is executed with the UPDATE event!.
Before row section is executed with the UPDATE event!.
Before Row Trigger is Fired!.
The Salary of Employee 202 -> Before:16000 After:16300
After row section is executed with the UPDATE event!.
After statement section is executed with the UPDATE event!.
2 rows updated.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Query Builder
1 DELETE employees_copy
2 WHERE DEPARTMENT_ID=20;
3
Script Output
Task completed in 0.043 seconds
Before row section is executed with the DELETE event!.
Before Row Trigger is Fired!.
The Salary of Employee 201 -> Before:23300 After:
Error starting at line : 1 in command -
DELETE employees_copy
WHERE DEPARTMENT_ID=20
Error report -
ORA-20001: You cannot delete from the employees_copy table..
ORA-06512: at "SYSTEM.BEFORE_ROW_EMP_CPY", line 10
ORA-04088: error during execution of trigger 'SYSTEM.BEFORE_ROW_EMP_CPY'

Simple Way of Doing it (with performance Gain)