NAME :- SAHIL PRAVIN THAKUR

PRN : - 2020BTECS00042

BATCH : - S3

SUB :- DATA BASE ENGINNERING LAB ASSIGNMENT 7

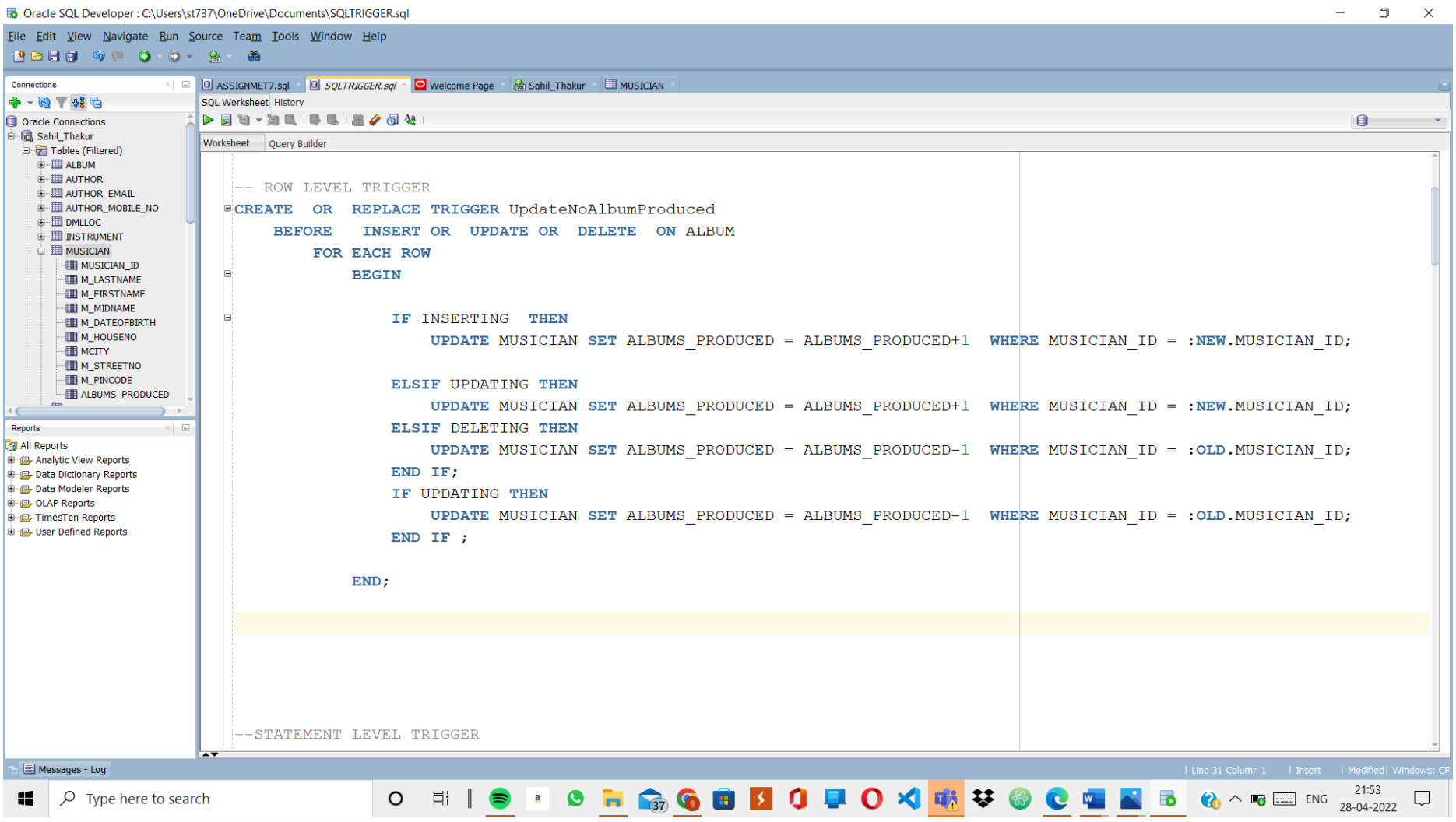
NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

Assignment :- 7

Title :-

Study of trigger

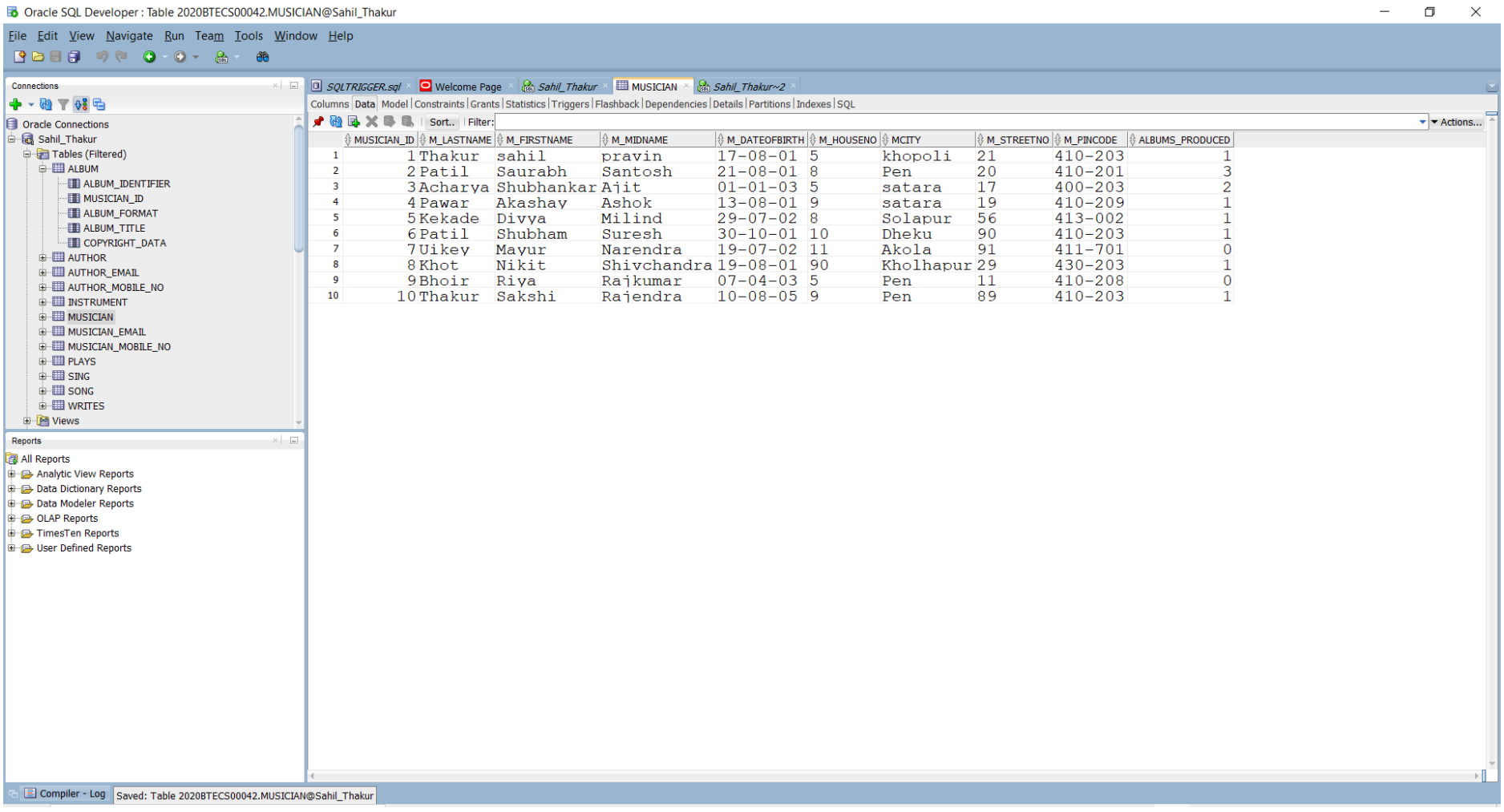
1) Here is the implementation of ROW LEVEL trigger to update count of album produce any changes in album table



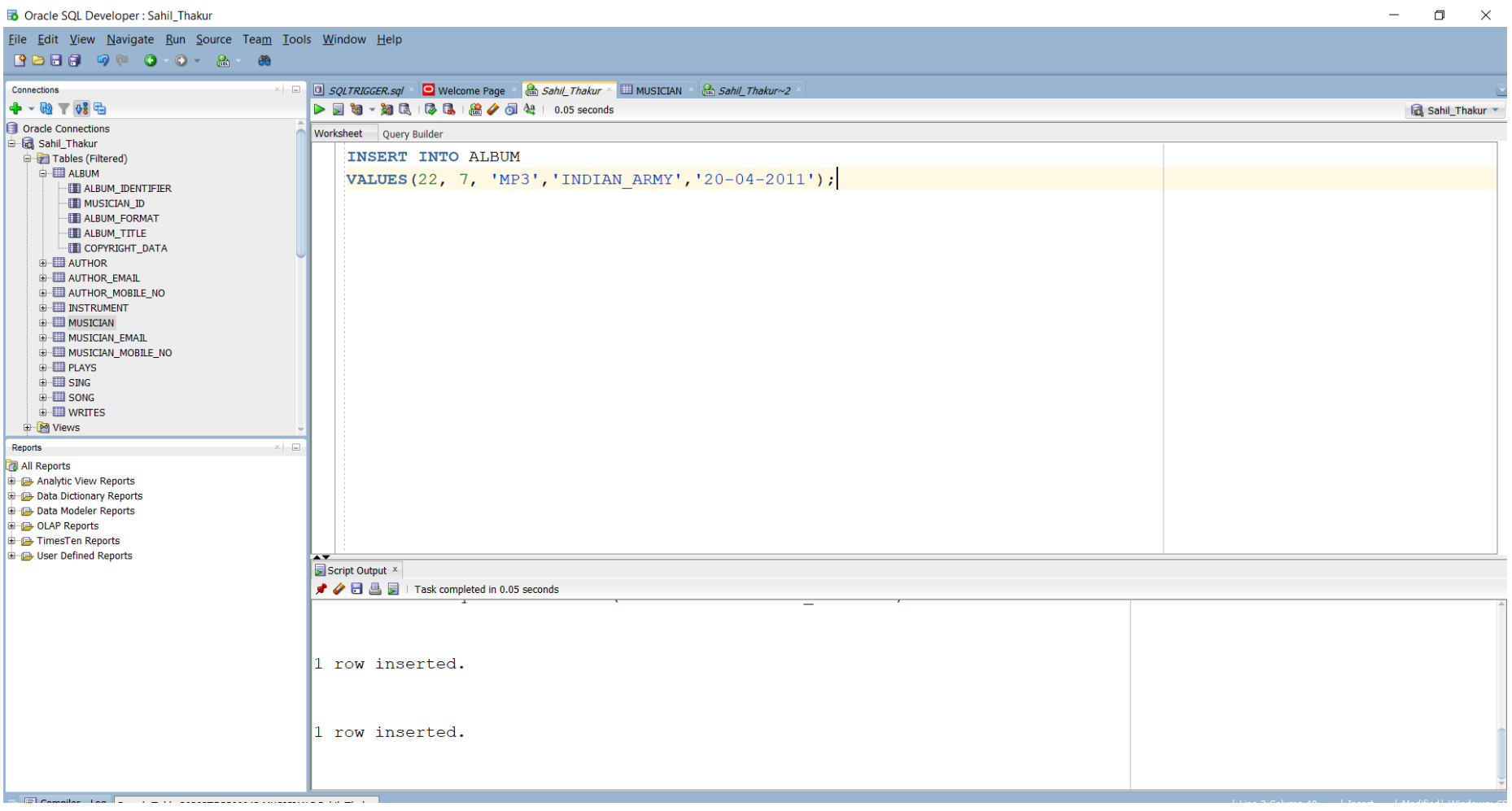
1) Insert operation

Here is the musician table before performing insert operation in album table

NAME :- SAHIL PRAVIN THAKUR **PRN :- 2020BTECS00042** **BATCH :- S3**

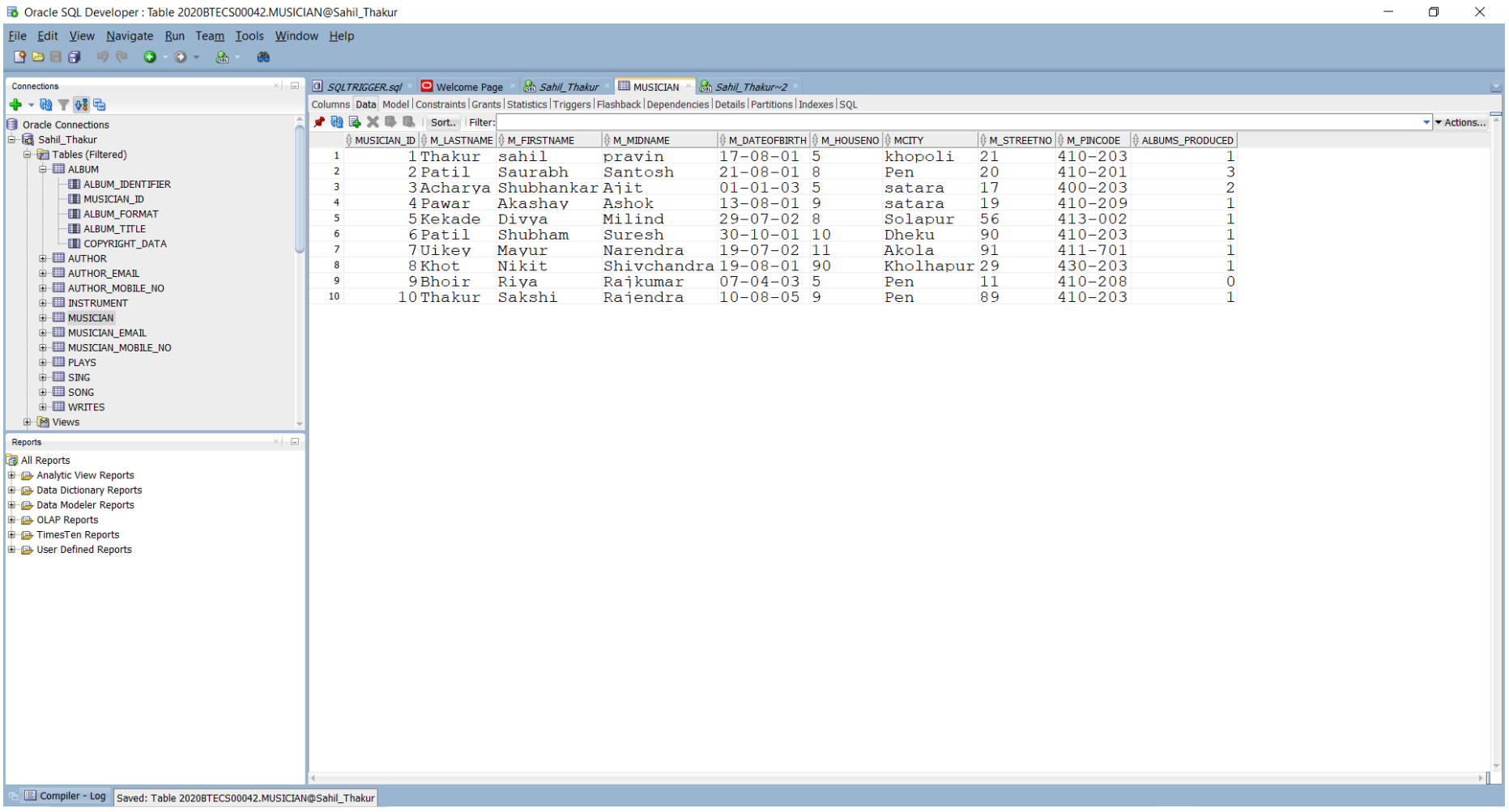


Insert Query



Musician table after peforming insert operation in album Table

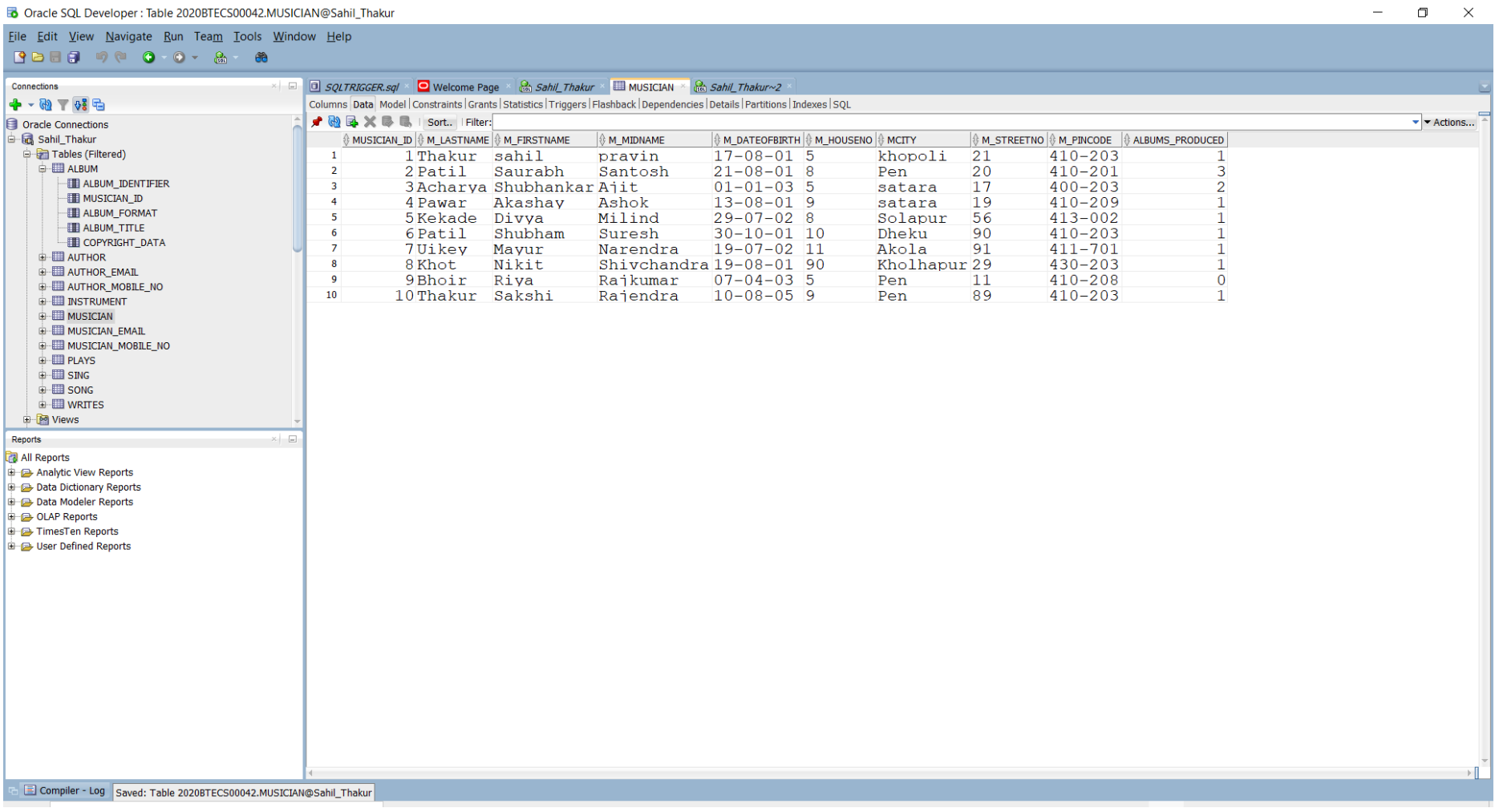
NAME :- SAHIL PRAVIN THAKUR **PRN :- 2020BTECS00042** **BATCH :- S3**



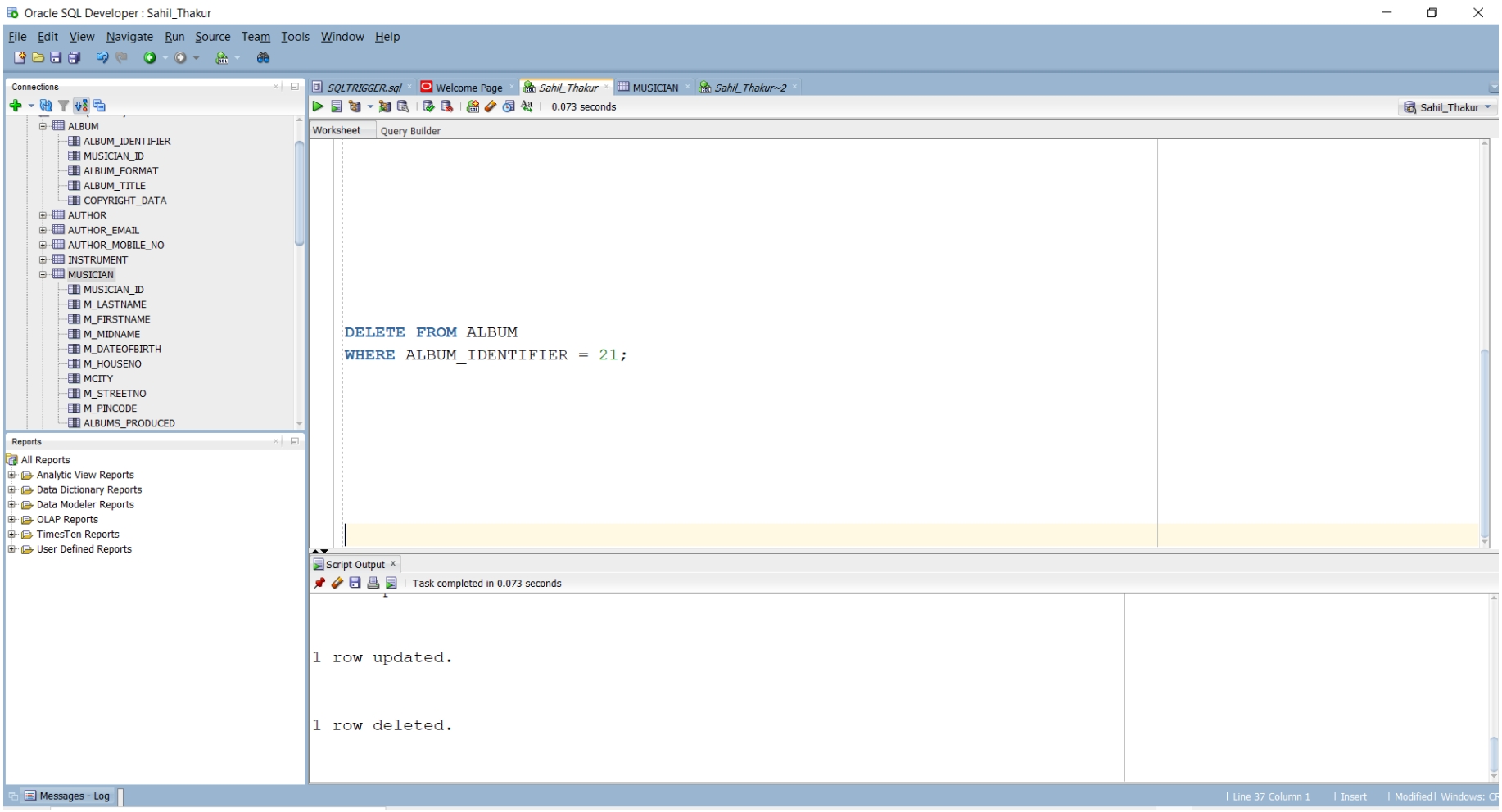
NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

2) Delete operation

Musician table before performing delete operation in album Table

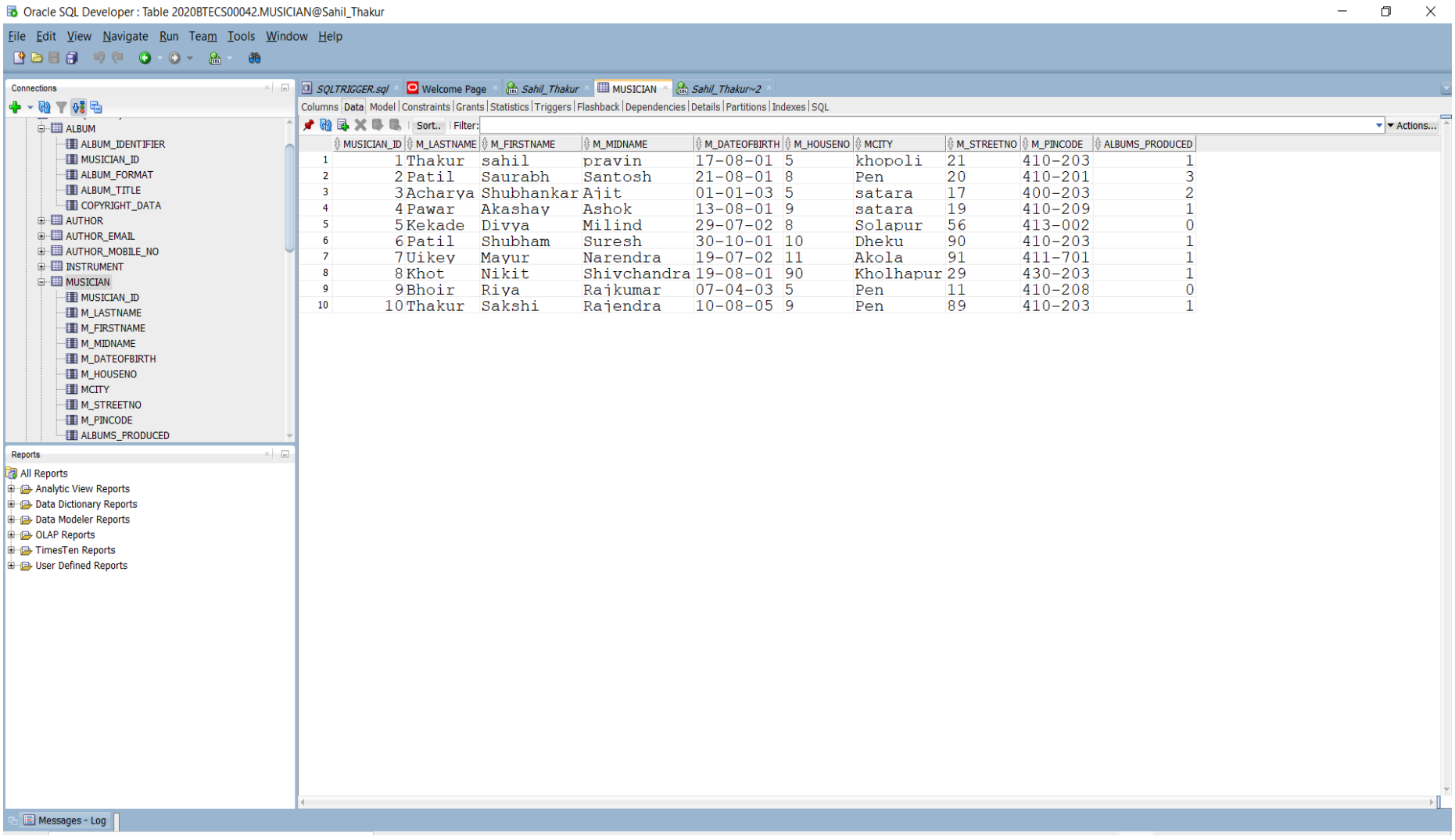


Query to perform delete operation



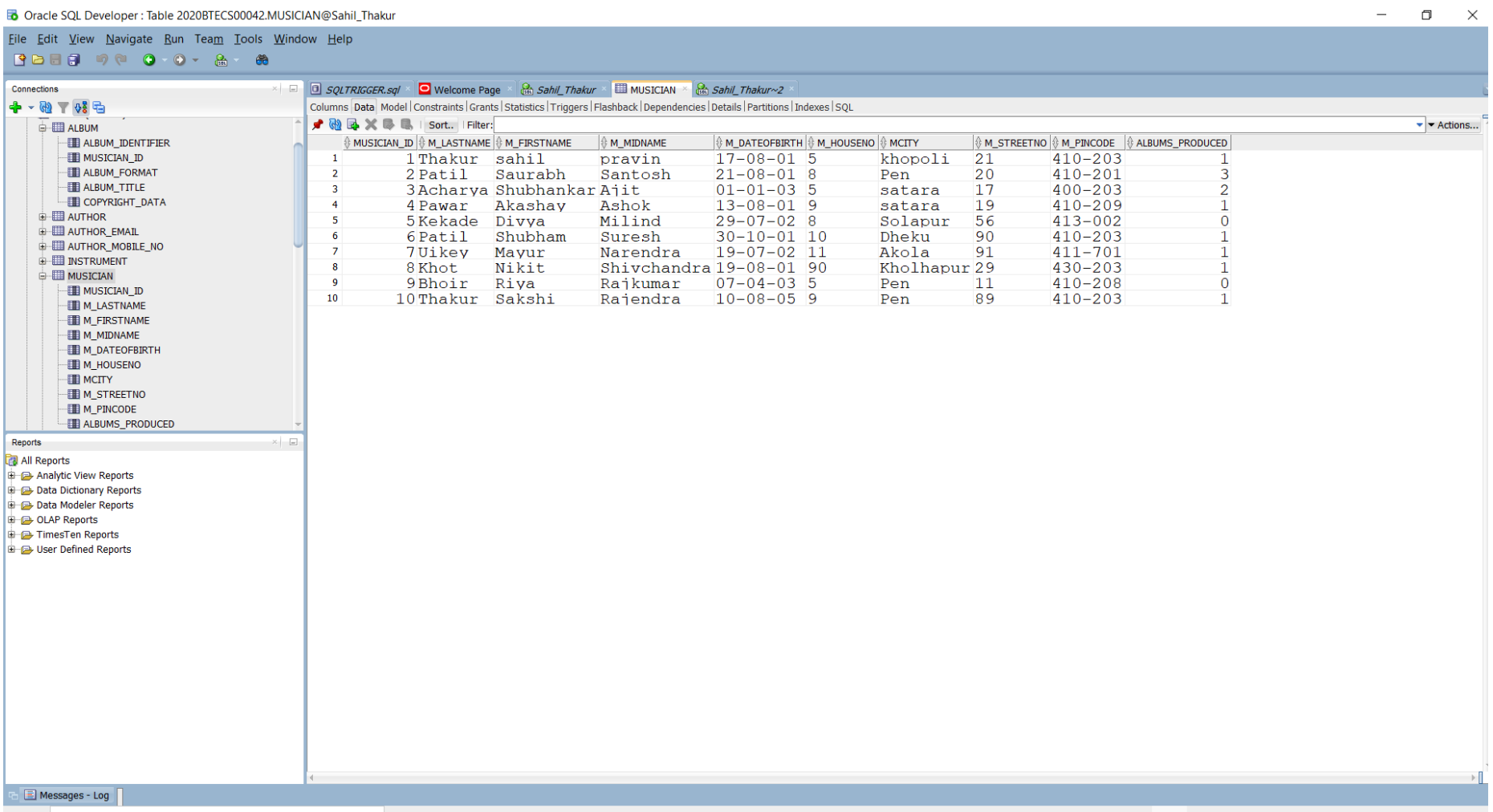
NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

Musician table after performing delete operation in album Table



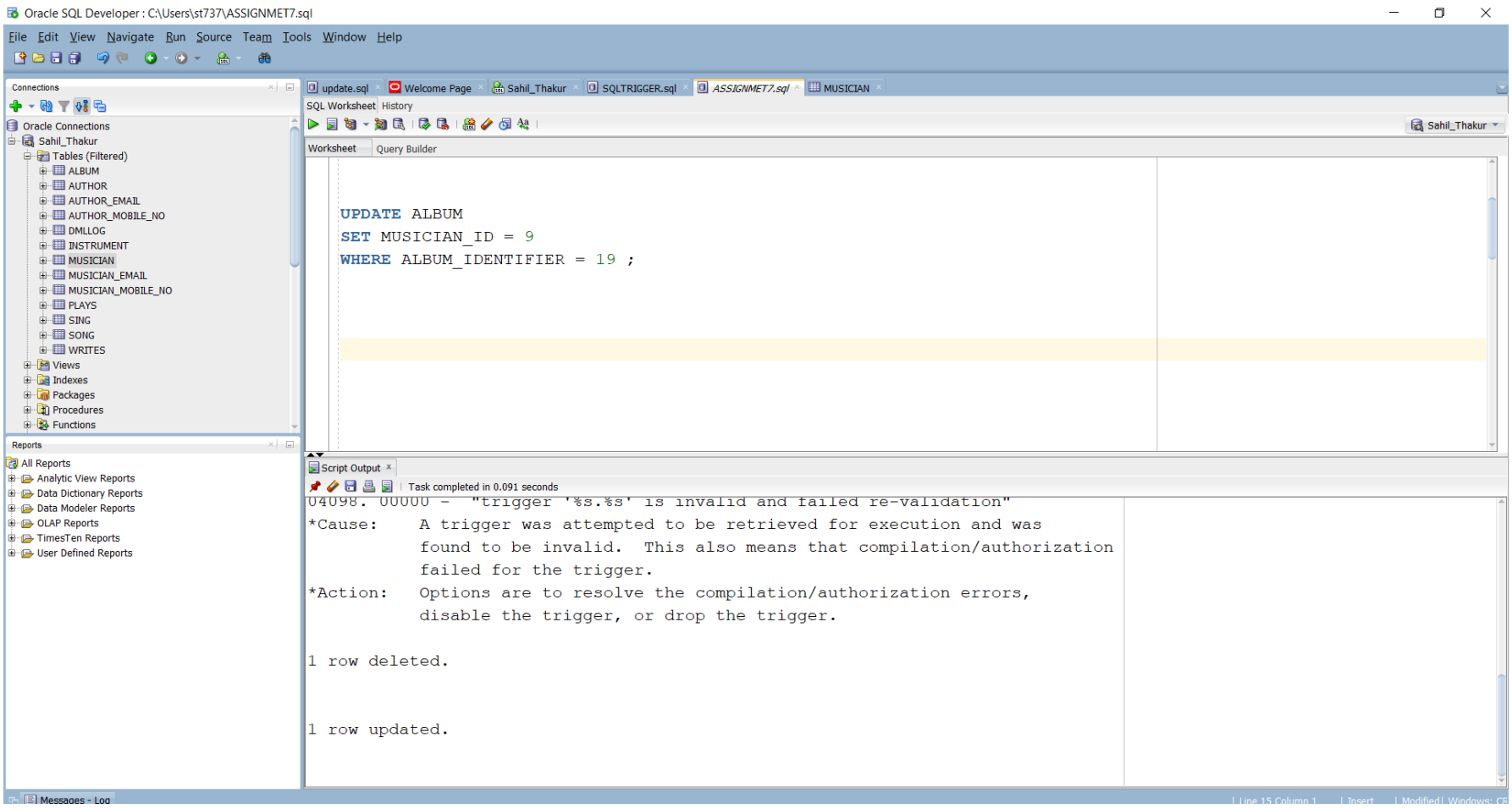
3) Update

Musician table before performing update operation in album Table

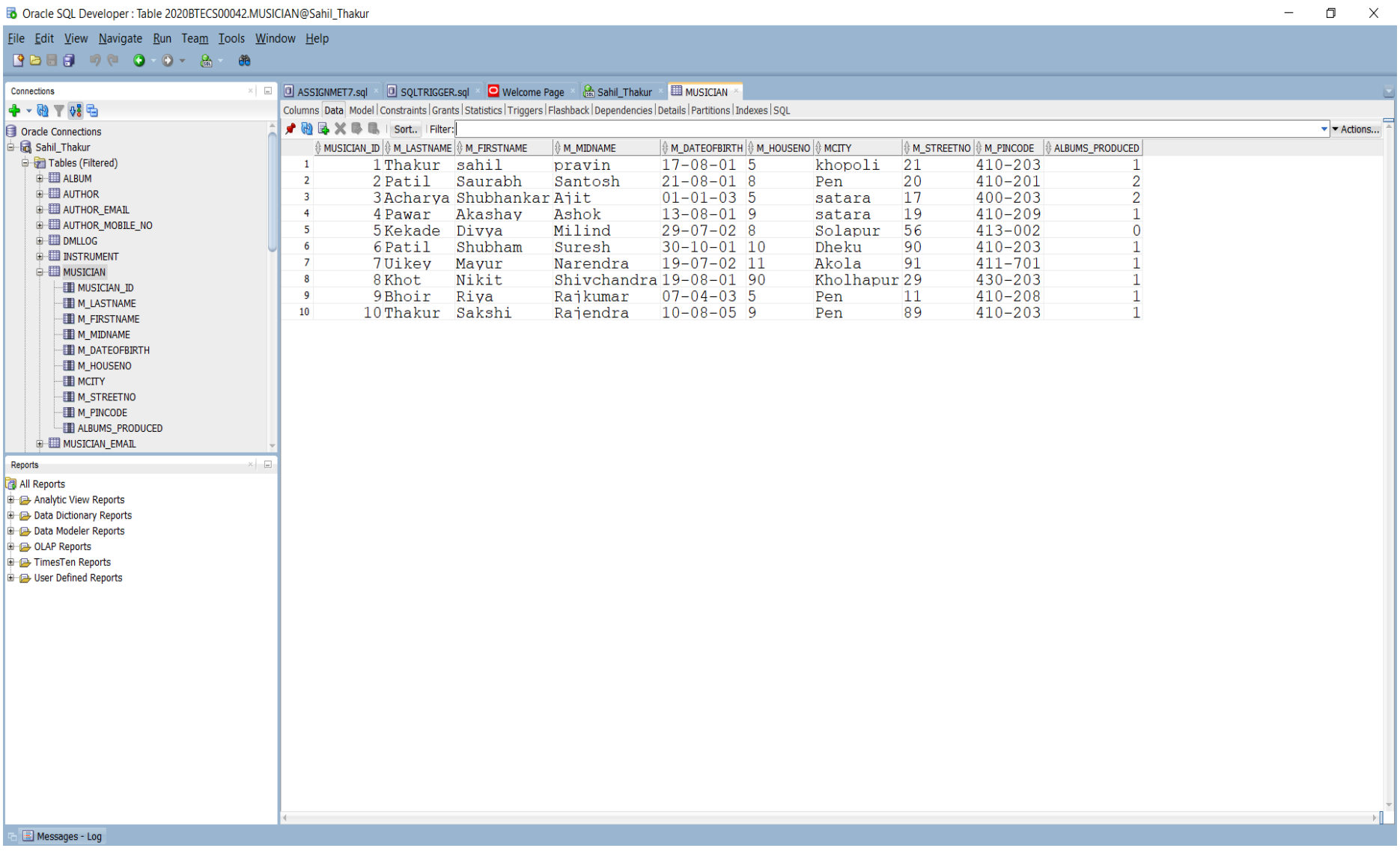


Query to perform update operation

NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3



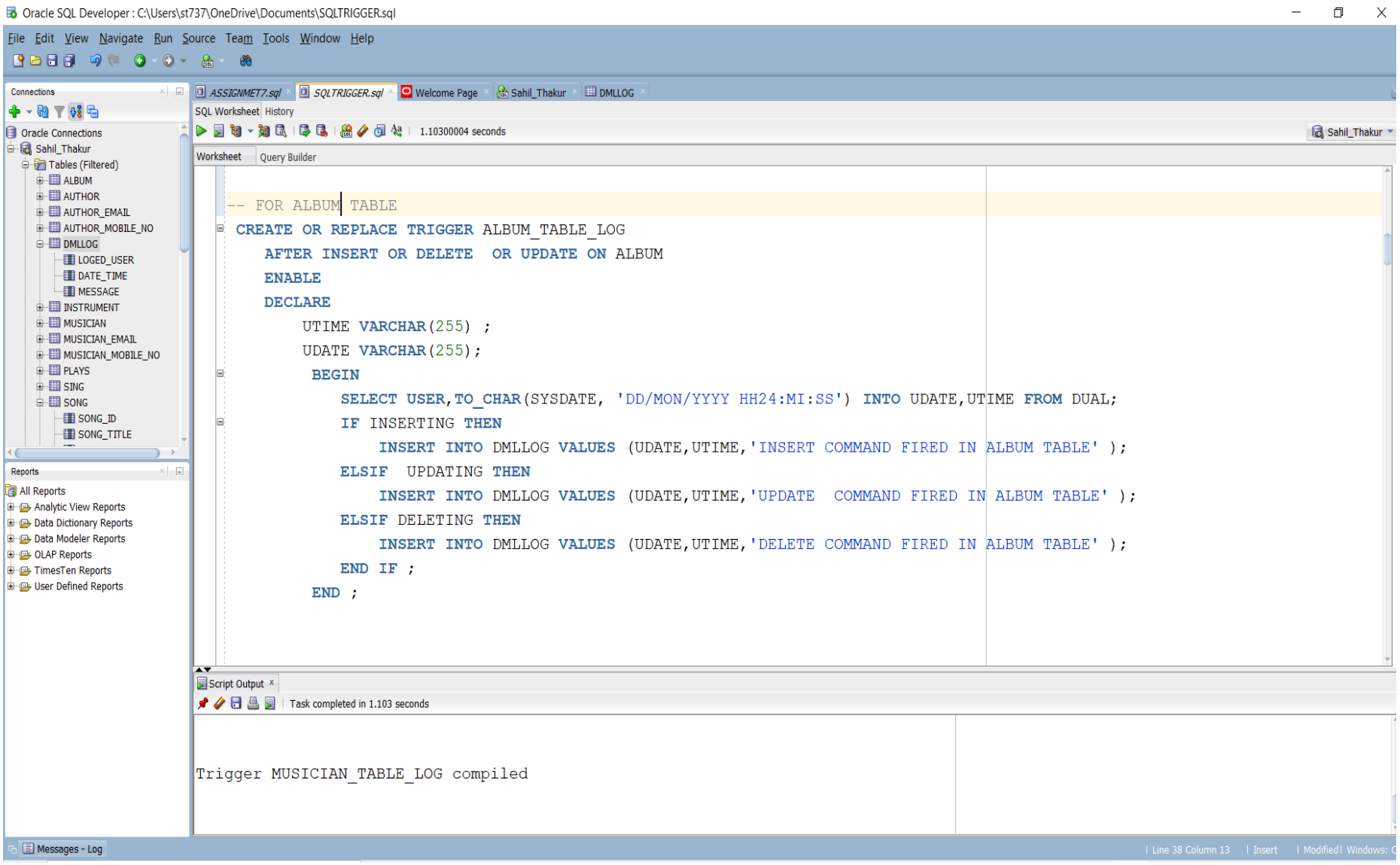
Musician table after performing update operation



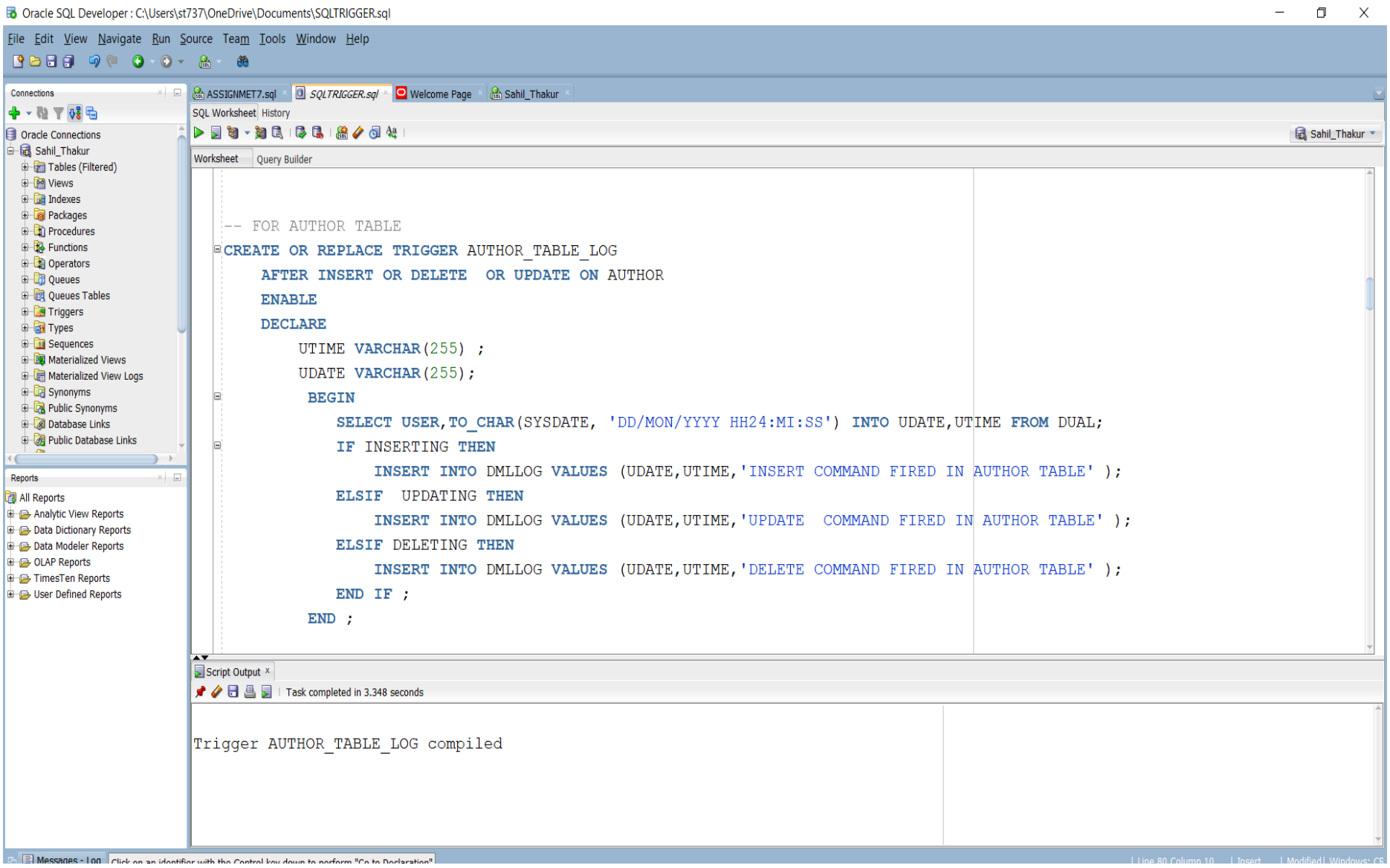
NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

2) Statement Level trigger

1) For Album Table

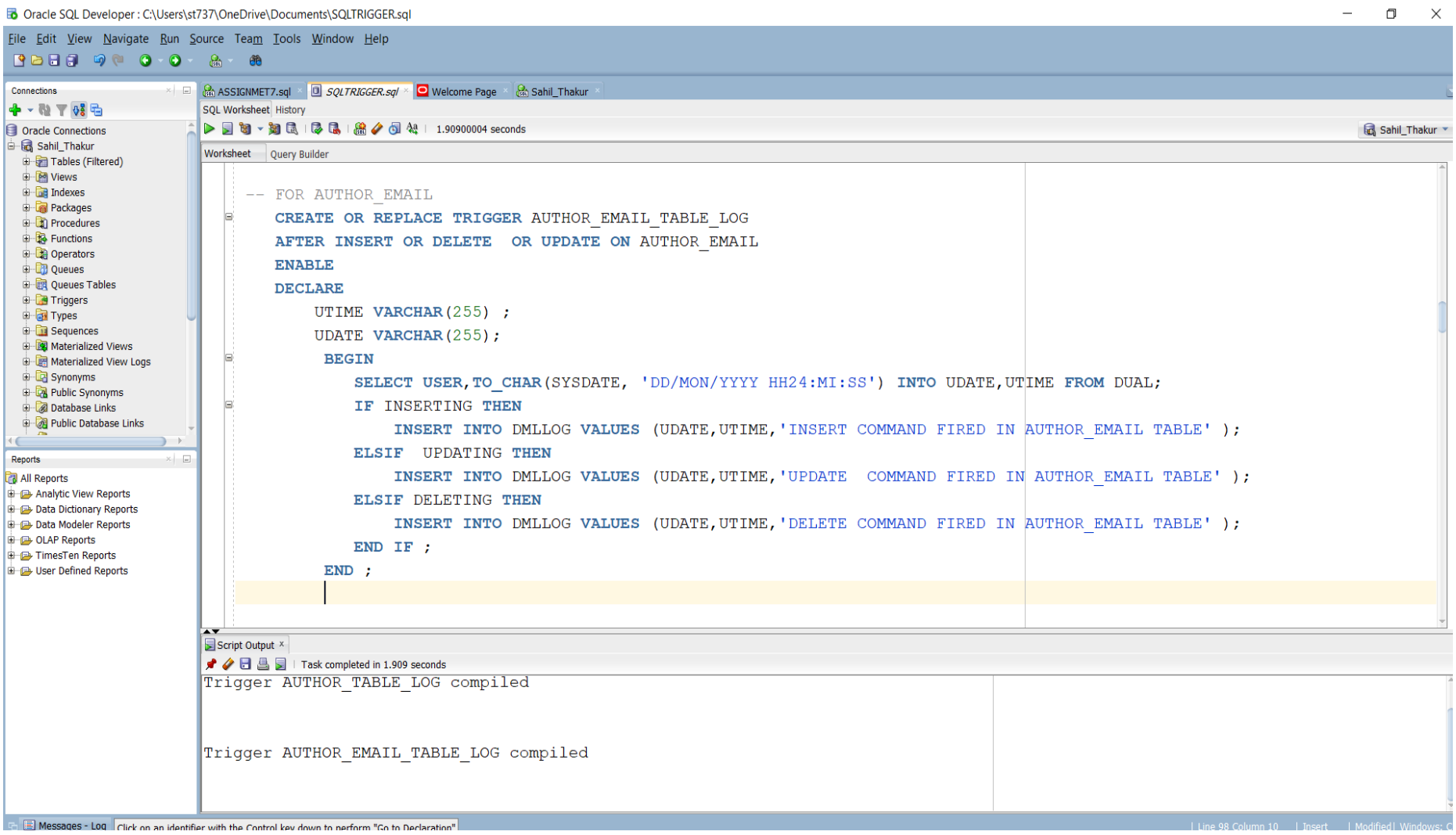


2) For Author Table

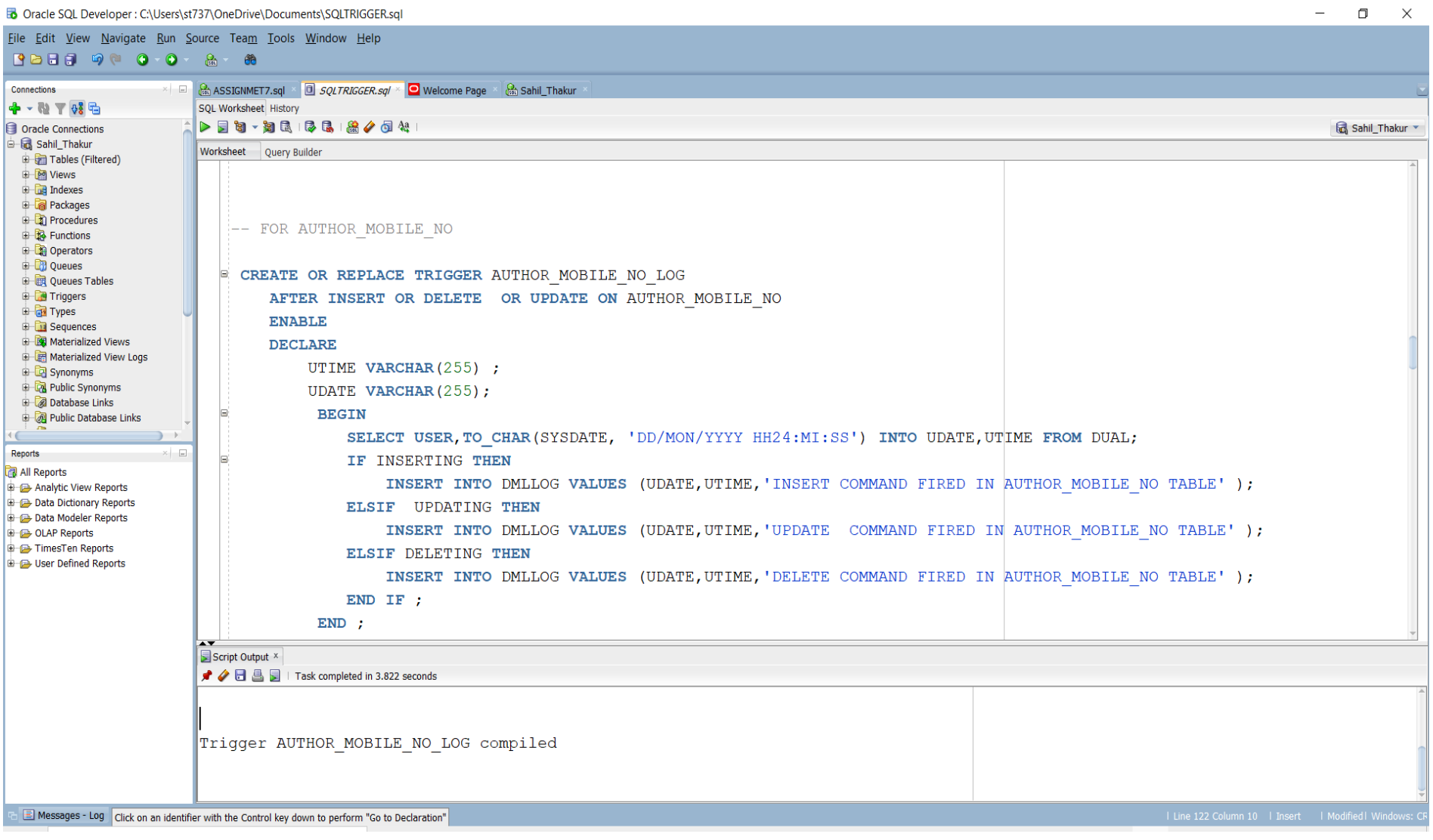


NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

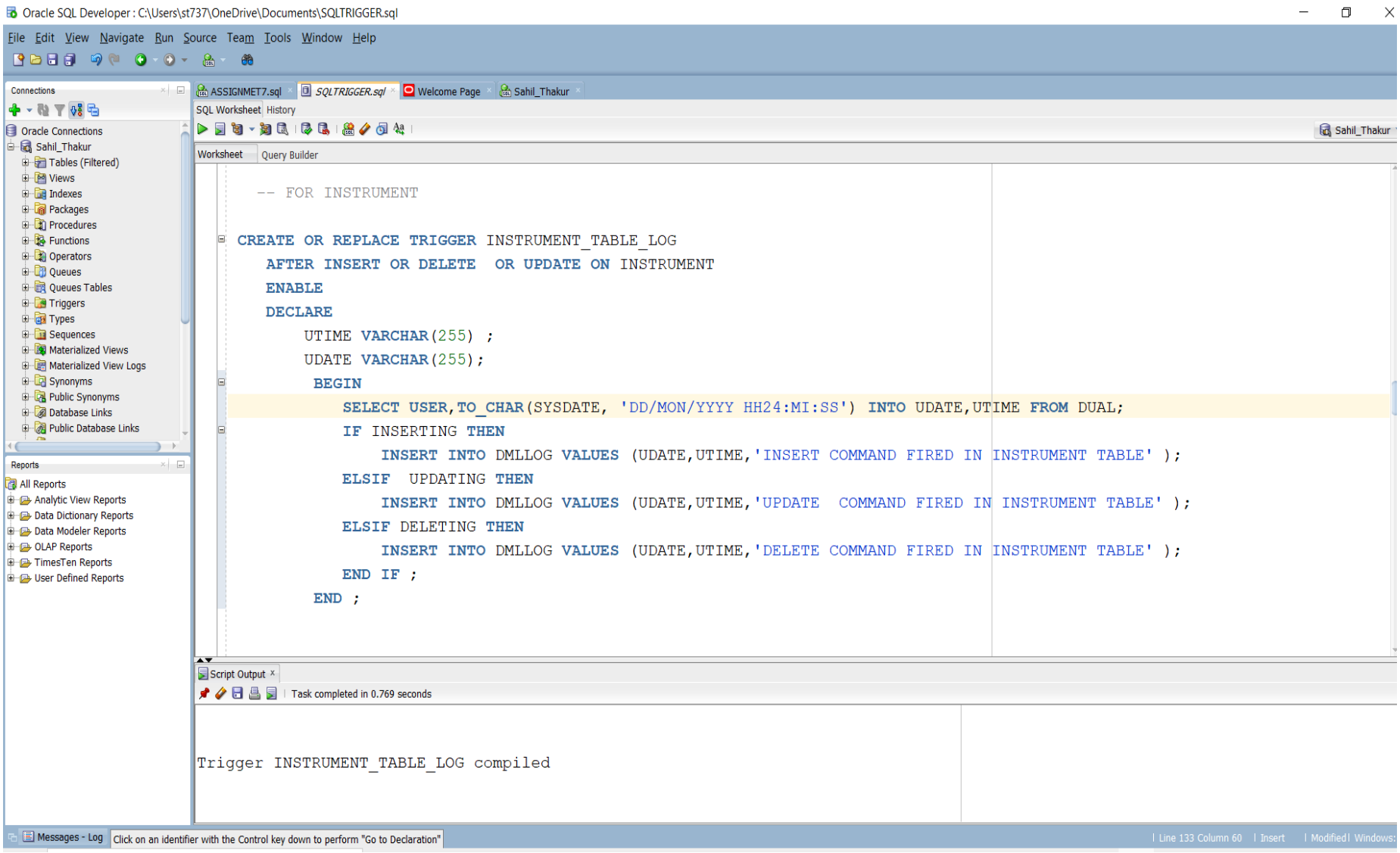
3) For Author_Email



4) For Author_mobile_no

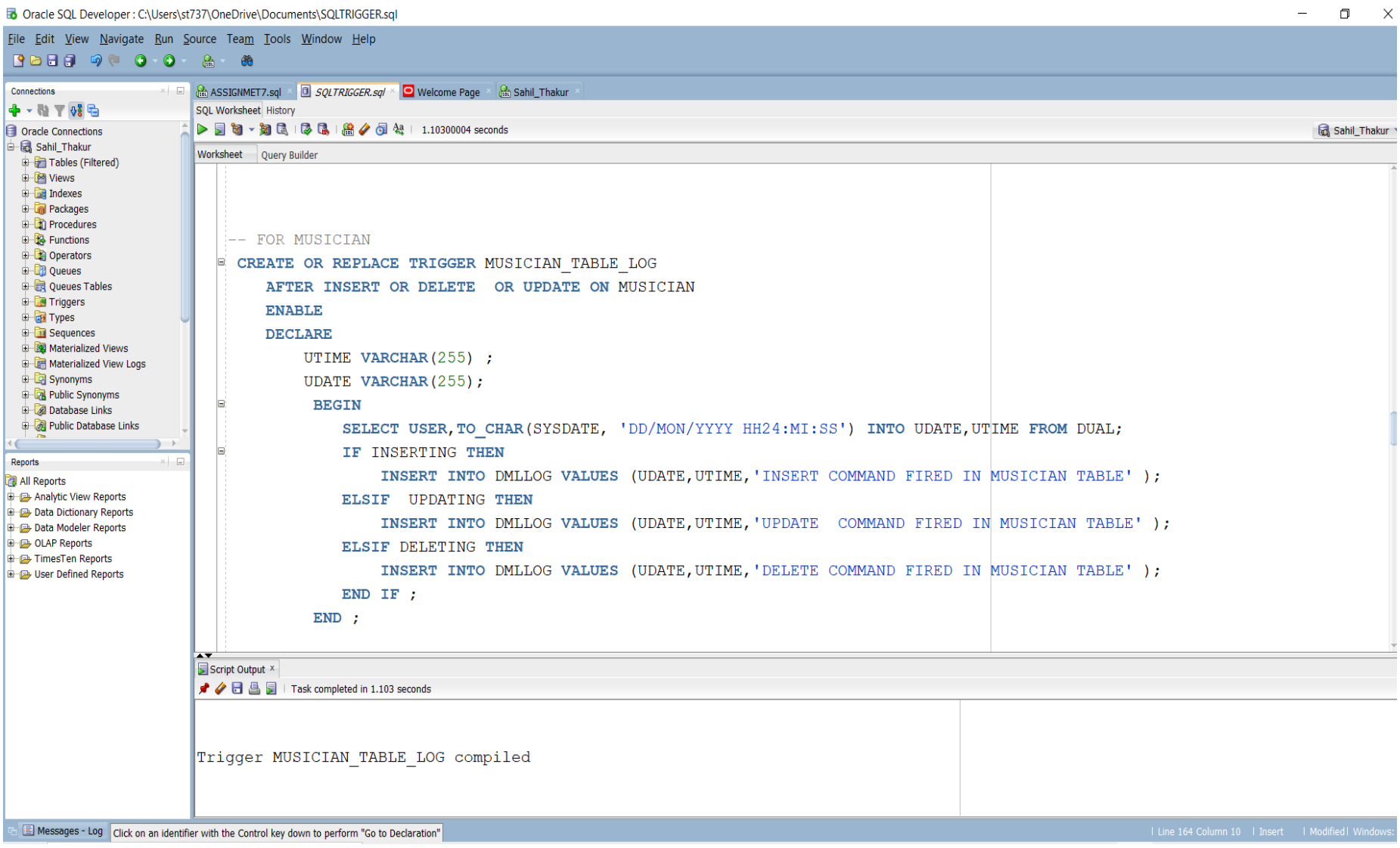


5) For Instriment Table



6) For Musician Table

NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3



7) For Musician_email Table

NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

Oracle SQL Developer : C:\Users\st737\OneDrive\Documents\SQLTRIGGER.sql

File Edit View Navigate Run Source Team Tools Window Help

ASSIGNMET7.sql | SQLTRIGGER.sql | Welcome Page | Sahil_Thakur

SQL Worksheet History | 1.10300004 seconds | Sahil_Thakur

Worksheet Query Builder

```
-- FOR MUSICIAN_EMAIL

CREATE OR REPLACE TRIGGER ALBUM_TABLE_LOG
    AFTER INSERT OR DELETE  OR UPDATE ON MUSICIAN_EMAIL
    ENABLE
    DECLARE
        UTIME VARCHAR(255) ;
        UDATE VARCHAR(255);
         BEGIN
            SELECT USER,TO_CHAR(SYSDATE, 'DD/MON/YYYY HH24:MI:SS') INTO UDATE,UTIME FROM DUAL;
            IF INSERTING THEN
                INSERT INTO DMLLOG VALUES (UDATE,UTIME,'INSERT COMMAND FIRED IN MUSICIAN_EMAIL TABLE' );
            ELSIF  UPDATING THEN
                INSERT INTO DMLLOG VALUES (UDATE,UTIME,'UPDATE  COMMAND FIRED IN MUSICIAN_EMAIL TABLE' );
            ELSIF DELETING THEN
                INSERT INTO DMLLOG VALUES (UDATE,UTIME,'DELETE COMMAND FIRED IN MUSICIAN_EMAIL TABLE' );
            END IF ;
         END ;
```

Script Output | Task completed in 1.103 seconds

```
Trigger MUSICIAN_TABLE_LOG compiled
```

Messages - Log | Click on an identifier with the Control key down to perform "Go to Declaration" | Line 187 Column 10 | Insert | Modified | Windows: C

8) For Musician_Mobile_no

Oracle SQL Developer : C:\Users\st737\OneDrive\Documents\SQLTRIGGER.sql

File Edit View Navigate Run Source Team Tools Window Help

ASSIGNMET7.sql | SQLTRIGGER.sql | Welcome Page | Sahil_Thakur

SQL Worksheet History | 1.10300004 seconds | Sahil_Thakur

Worksheet Query Builder

```
-- FOR MUSICIAN_MOBILE_NO
 CREATE OR REPLACE TRIGGER ALBUM_TABLE_LOG
    AFTER INSERT OR DELETE  OR UPDATE ON ALBUM
    ENABLE
    DECLARE
        UTIME VARCHAR(255) ;
        UDATE VARCHAR(255);
         BEGIN
            SELECT USER,TO_CHAR(SYSDATE, 'DD/MON/YYYY HH24:MI:SS') INTO UDATE,UTIME FROM DUAL;
            IF INSERTING THEN
                INSERT INTO DMLLOG VALUES (UDATE,UTIME,'INSERT COMMAND FIRED IN ALBUM TABLE' );
            ELSIF  UPDATING THEN
                INSERT INTO DMLLOG VALUES (UDATE,UTIME,'UPDATE  COMMAND FIRED IN ALBUM TABLE' );
            ELSIF DELETING THEN
                INSERT INTO DMLLOG VALUES (UDATE,UTIME,'DELETE COMMAND FIRED IN ALBUM TABLE' );
            END IF ;
        END ;
```

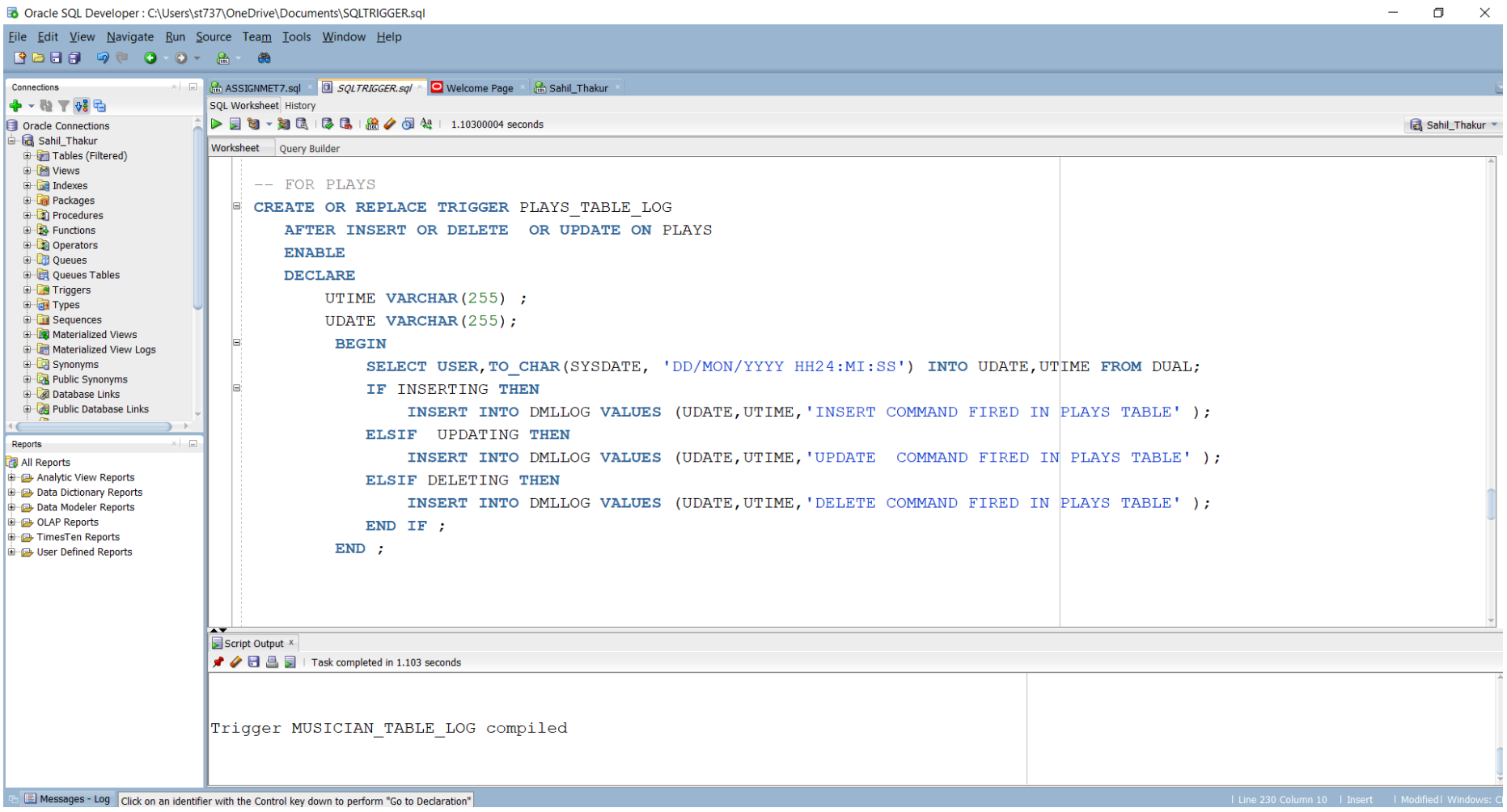
Script Output | Task completed in 1.103 seconds

```
Trigger MUSICIAN_TABLE_LOG compiled
```

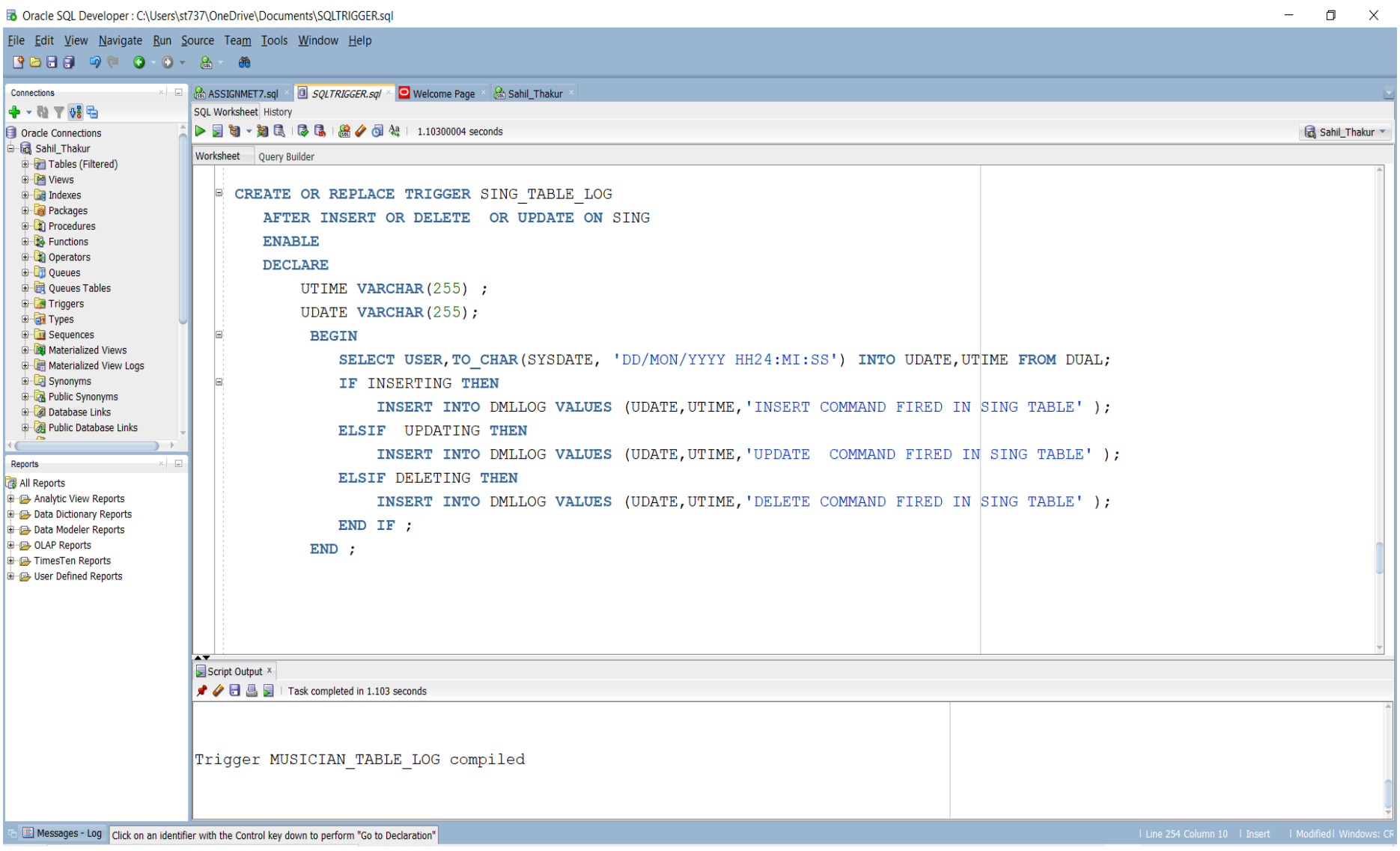
Messages - Log | Click on an identifier with the Control key down to perform "Go to Declaration" | Line 208 Column 8 | Insert | Modified | Windows: C

9) For Plays Table

NAME :- SAHIL PRAVIN THAKUR **PRN :- 2020BTECS00042** **BATCH :- S3**

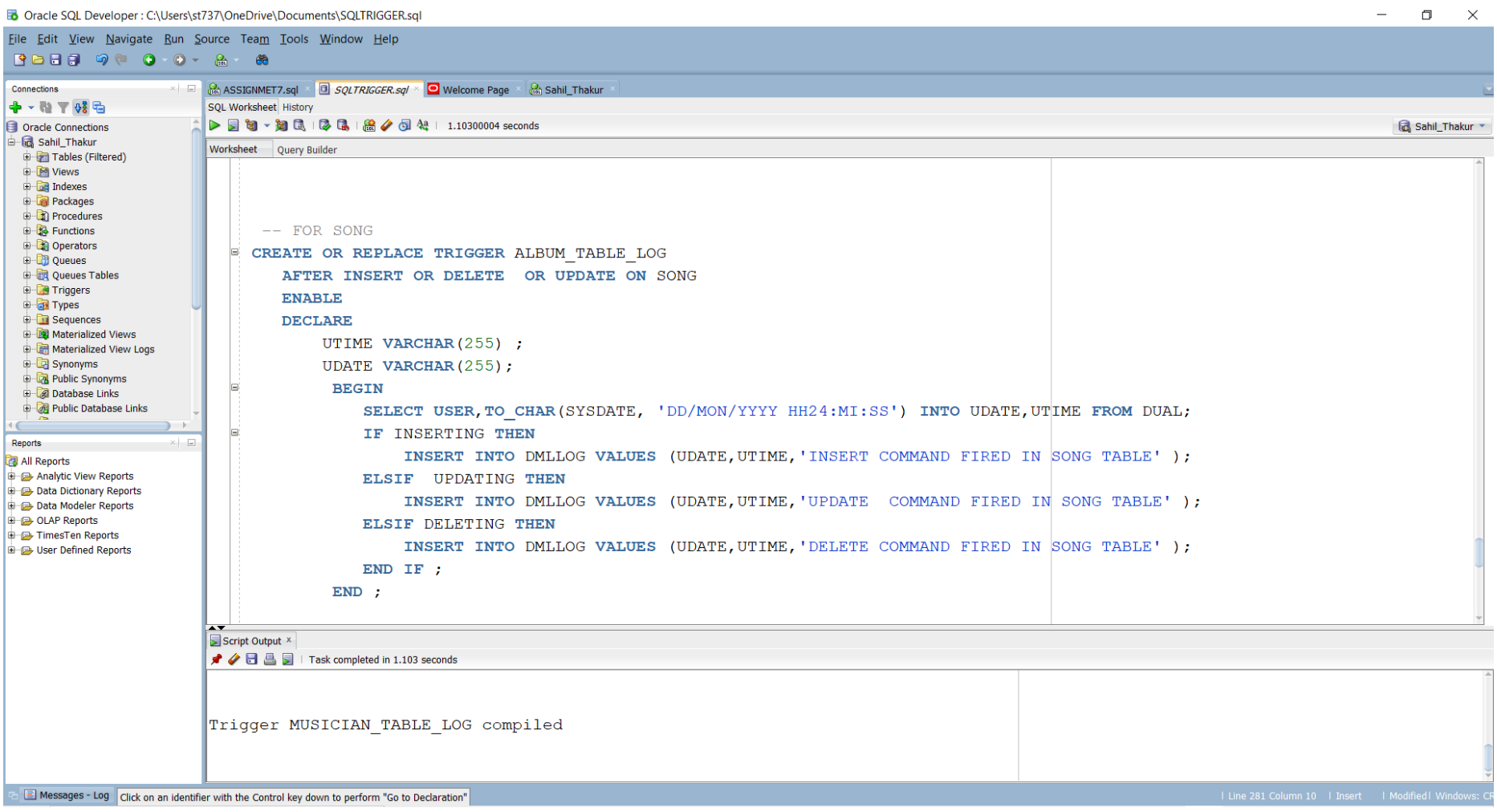


10) For SING Table

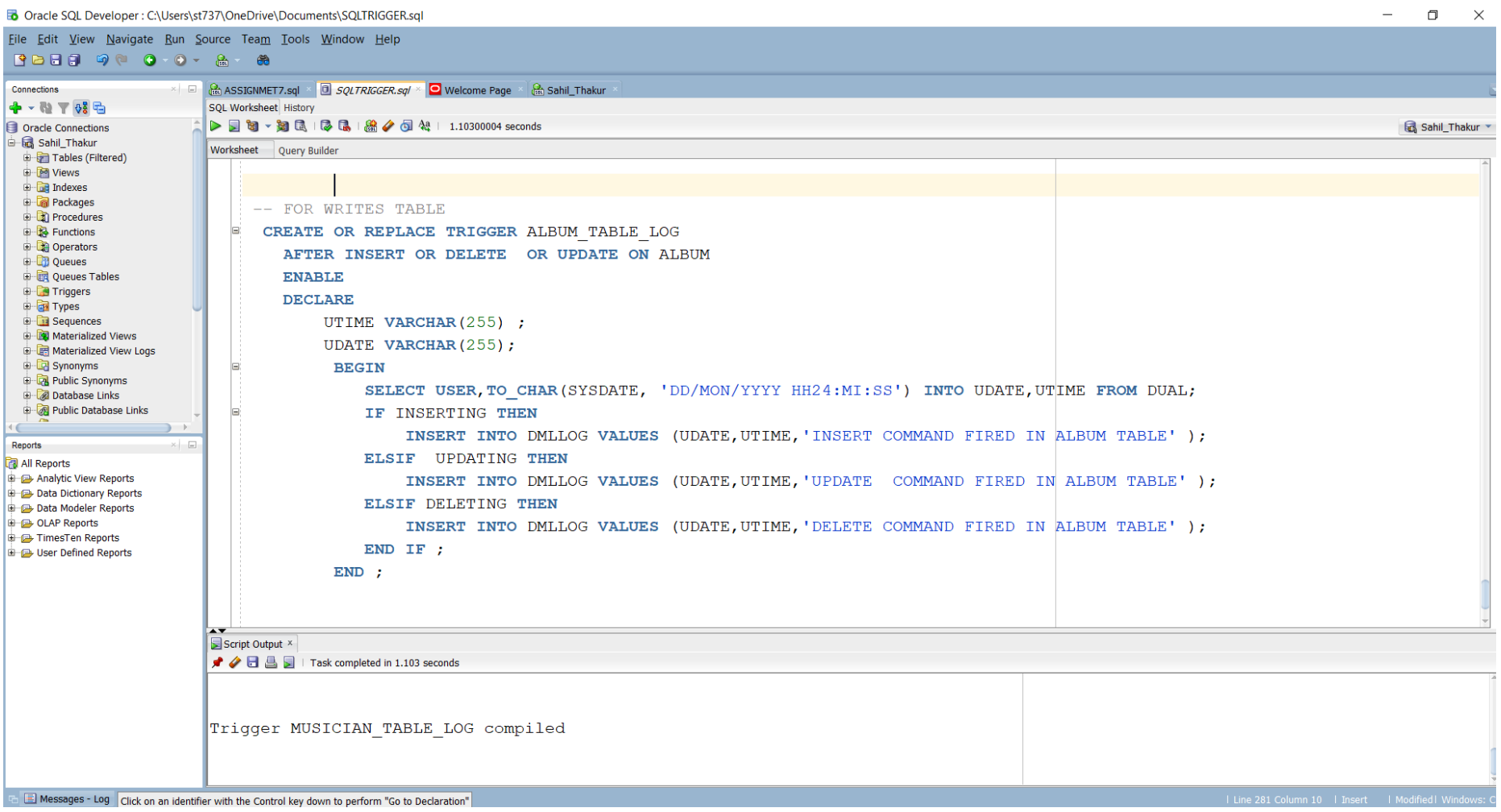


NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

11) For Song Table

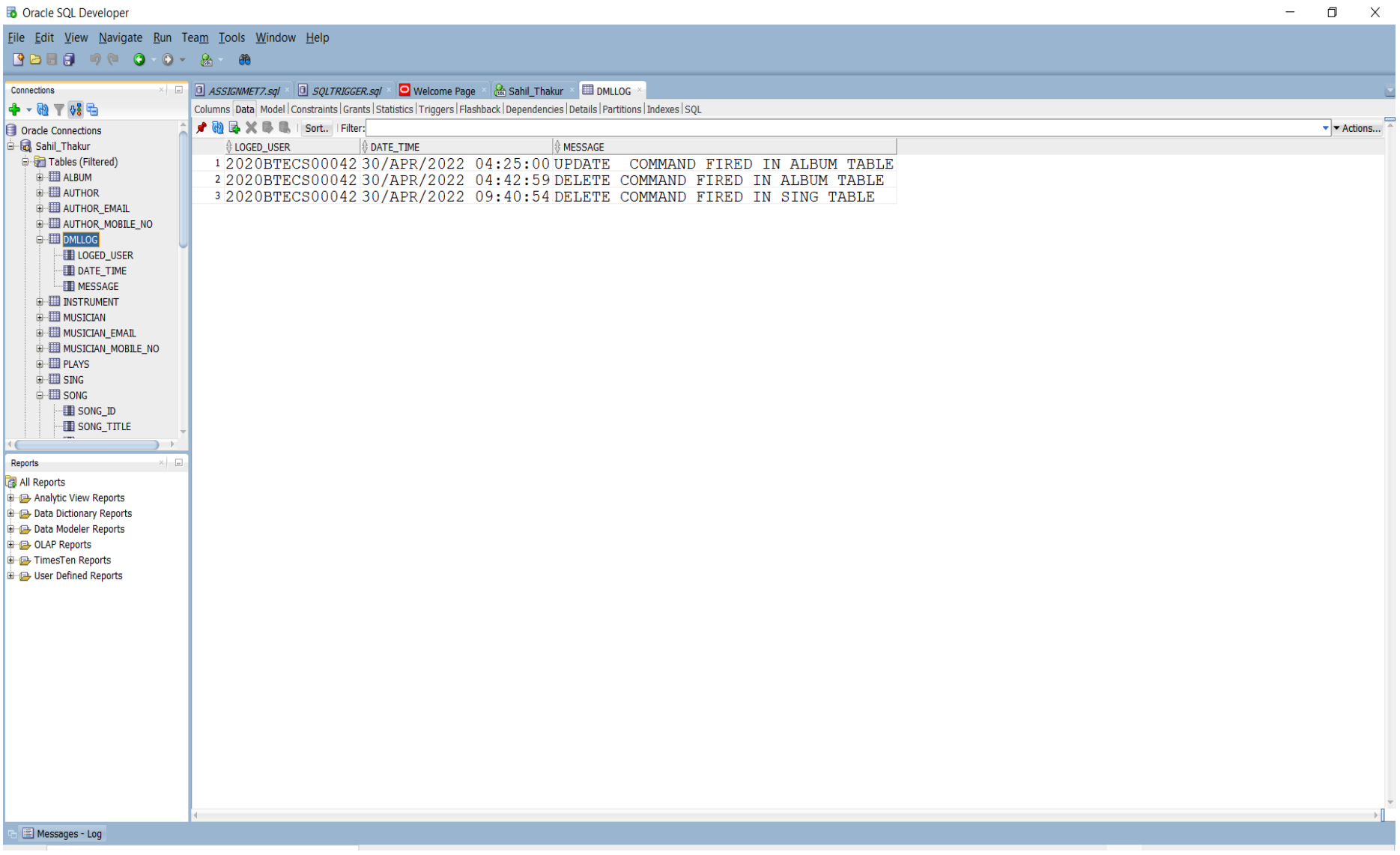


12) For Writes Table



NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3

DML Log



Difference Between Row Level Trigger and Statement Level Trigger

1) Row-Level Triggers execute once for each and every row transection while Statement -level trigger execute only once for single transection

2) “FOR EACH ROW” clause is present in the creating the row-level-trigger while it omitted in statement-level trigger

NAME :- SAHIL PRAVIN THAKUR PRN :- 2020BTECS00042 BATCH :- S3