REPORT 1

Introduction to the database: NUMusic is an application used for music management. We can use the NUMusic database to manage the users who are using the app, navigate songs, subscribe to an available subscription plan to get access to perks like downloading songs, managing playlists,
managing the payment details to get the subscription. Students, staff members and other employees associated can use this application.

Objective: To generate a report to get week wise number of songs downloaded in the last 3 years.

Query used:

```
SELECT
    TRUNC(d.download_date, 'IW') AS week,
    s.song_name,
    LISTAGG(distinct a.artist_name, ', ') WITHIN GROUP (ORDER BY
a.artist_name) AS artist_names,
    al.album_name,
    s.genre_name,
    s.song_release_date,
    COUNT(distinct subs_id) AS download_count
FROM
    Download d
    JOIN Songs s ON d.song_id = s.song_id
    JOIN Album al ON s.album_id = al.album_id
    JOIN Album_Artist aa ON al.album_id = aa.album_id
    JOIN Artist a ON aa.artist_id = a.artist_id
GROUP BY
    TRUNC(d.download_date, 'IW'),
```

s.song_name,
        al.album_name,
        s.genre_name,
        s.song_release_date
ORDER BY
    week DESC,
    download_count DESC;

Result screen shots:

```
 4 ⊟ SELECT
 5       TRUNC(d.download_date, 'IW') AS week,
 6       s.song_name,
 7       LISTAGG(distinct a.artist_name, ', ') WITHIN GROUP (ORDER BY a.artist_name) AS artist_names,
 8       al.album_name,
 9       s.genre_name,
10       s.song_release_date,
11       COUNT(distinct subs_id) AS download_count
12   FROM
13       Download d
14       JOIN Songs s ON d.song_id = s.song_id
15       JOIN Album al ON s.album_id = al.album_id
16       JOIN Album_Artist aa ON al.album_id = aa.album_id
17       JOIN Artist a ON aa.artist_id = a.artist_id
18   GROUP BY
19       TRUNC(d.download_date, 'IW'),
20       s.song_name,
21       al.album_name,
22       s.genre_name,
23       s.song_release_date
24   ORDER BY
25       week DESC,
26       download_count DESC;
```

Script Output ×   ▶ Query Result ×

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WEEK	SONG_NAME	ARTIST_NAMES	ALBUM_NAME	GENRE_NAME	SONG_RELEASE_DATE	DOWNLOAD_COUNT
1 ⊩APR–23	Liar	Olivia Rodrigo	Sour	pop	04–JUL–21	2
2 ⊩APR–23	Black or White	Michael Jackson	Thriller	pop	04–JUL–21	2
3 ⊩APR–23	Thriller	Michael Jackson	Thriller	Rock	04–JUL–21	2
4 ⊩APR–23	Good For You	Olivia Rodrigo	Sour	pop	04–JUL–21	1