

IRON MAIDEN  
STUDIO ALBUM  
DATA BASE PROJECT



- TIM HULAK: IST DB DATA ADMIN CONCEPTS AND DB MGMT

# SUMMARY

Upon returning from their latest world tour, English heavy metal band Iron Maiden are planning their next studio album. The band are contemplating retirement after their successful 45 year run and want this new album to show their fans how much they appreciate their support over the decades. However, not every album has been met with undying fan approval so the band want to make a data-driven decision on the direction of the new album, in order to deliver the best possible album for as many fans as possible.

# STAKEHOLDERS

# BUSINESS RULES

-  Only studio albums, and their official track list according to the Iron Maiden website (<https://www.ironmaiden.com/discography/studio-albums>) are considered and evaluated for chart scores.
-  Singles released from respective albums are not considered for chart scores
-  An album is recorded by many band members
-  An album is produced by one or more producers
-  An album is recorded at one or more studios
-  A studio is located at one location
-  An album has many songs
-  Songs are written by one or more band members
-  A song can only appear on one album

# GLOSSARY



A **band member** is a participant in the group that records music, plays an instrument, writes songs, and/or appears on a studio album.

- Name: The first and last name of the band member
- Instrument: the musical instrument that the band member plays on an album



A **studio album** is a recording that is done in a recording studio and is not recorded at a live concert.

- Title: The name/title of the studio album
- Track Count: How many songs appear on the album
- Minutes: The duration of the studio album in whole minutes, not counting leftover seconds; not rounded to the nearest minute.
- Seconds: The remaining duration of the studio album in seconds
- Release Date: The date the studio album was released, according to the Iron Maiden website.
- UK Peak Chart: The highest numerical position the studio album was ranked in the United Kingdom
- US Peak Chart: The highest numerical position the studio album was ranked in the United States
- UK Certification: The Recording Industry Association of America (RIAA) ranking of the studio album on the United Kingdom charts, which are named after precious materials (gold, platinum, silver, etc.).
- US Certification: The Recording Industry Association of America (RIAA) ranking of the studio album on the United States charts, which are named after precious materials (gold, platinum, silver, etc.).



A **song** is a track that appears on a studio album.

- Title: The name/title of the song that appears on a studio album
- Writer: The band member(s) that contributed the writing of the song
- Minutes: The duration of the song in whole minutes, not counting leftover seconds; not rounded to the nearest minute.
- Seconds: The remaining duration of the song in seconds



A **producer** is the person(s) that records and engineers the songs, and ultimately the studio album itself



A **studio** is the company that facilitated the recording of the studio album and oversees the distribution of the album.

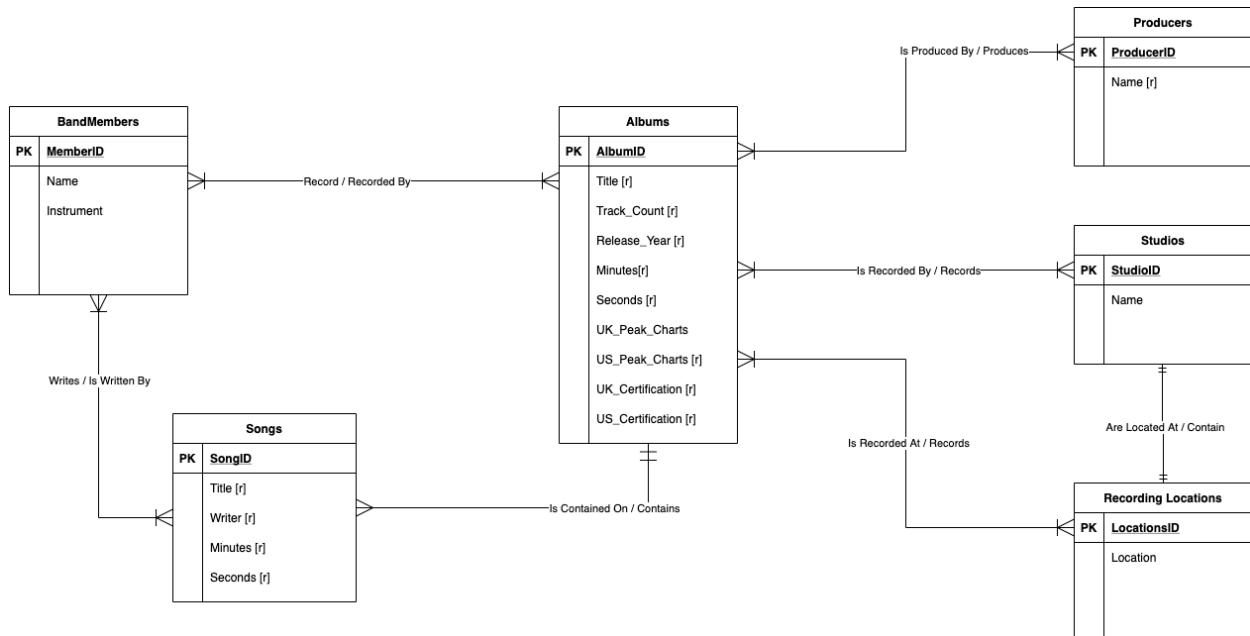


A **recording location** is the physical facility where the studio album is recorded

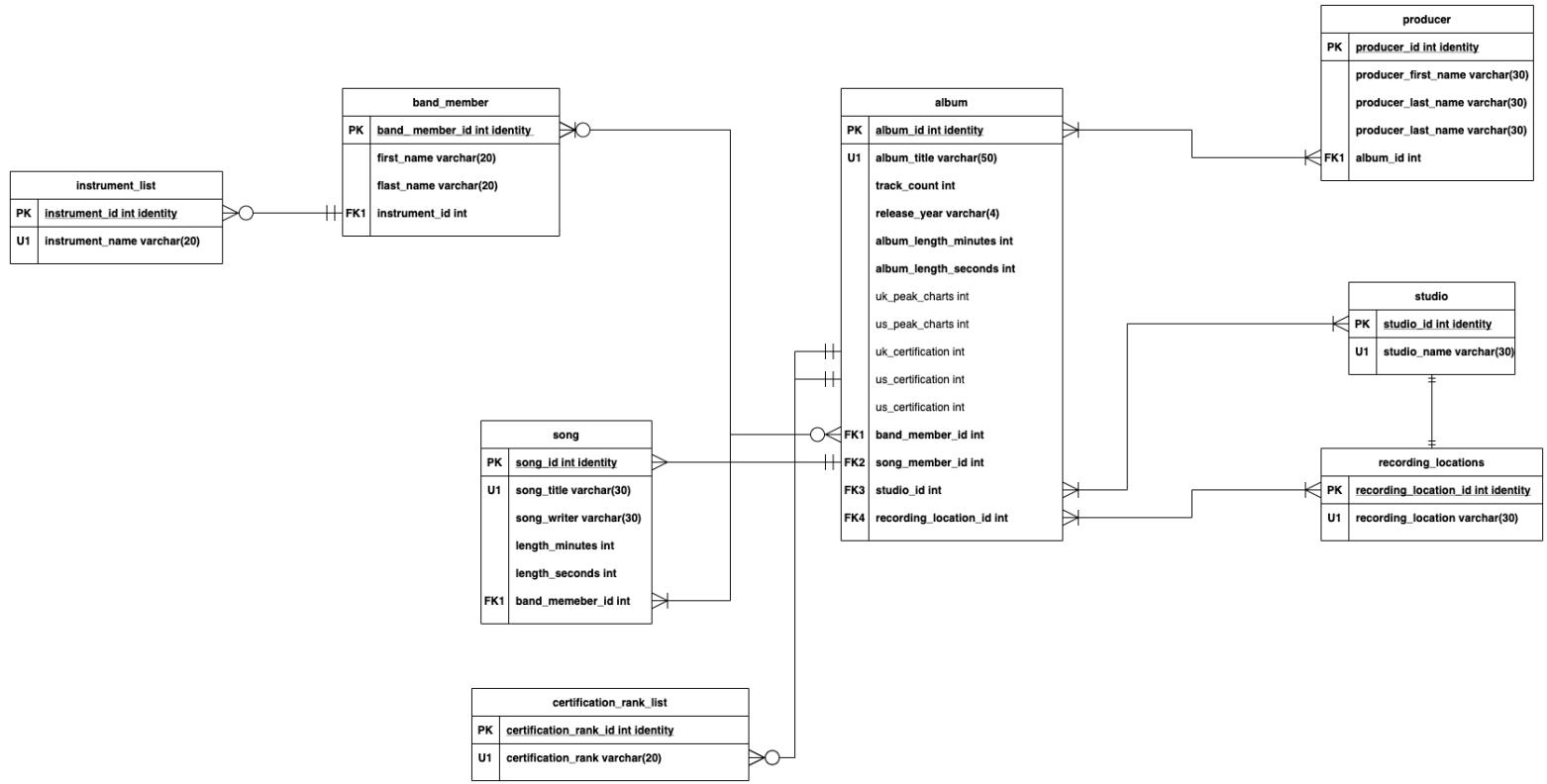
# DATA QUESTIONS

# CONCEPTUAL MODEL

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Iron Maiden Studio Album DB

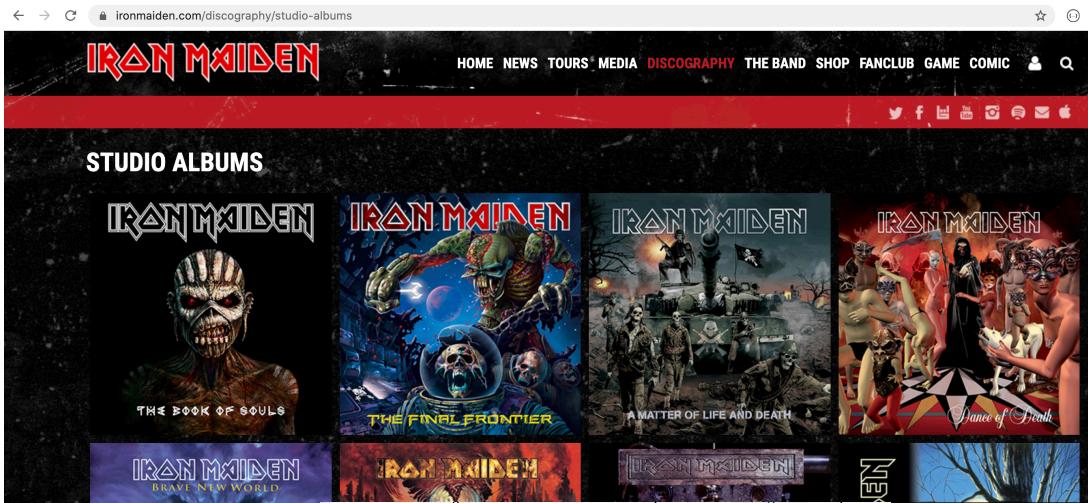


# LOGICAL MODEL



# RAW DATA

The raw data was gathered from the Iron Maiden website and recorded using an Excel spreadsheet.



Title	Writer	Minutes	Seconds
Prowler	Harris	3	55
Remember Tomorrow	Harris, Di'Anno	5	27
Running Free	Harris, Di'Anno	3	16
Phantom of the Opera	Harris	7	20
Transylvania (Instrumental)	Harris	4	5
Strange World	Harris	5	45
Charlotte the Harlot	Murray	4	12
Iron Maiden	Harris	3	35
) The Ides of March (Instrumental)	Harris	1	48
Wrathchild	Harris	2	54
? Murders in the Rue Morgue	Harris	4	14
) Another Life	Harris	3	22
Genghis Khan (Instrumental)	Harris	3	2
Innocent Exile	Harris	3	50
Killers	Di'Anno, Harris	4	58
Prodigal Son	Harris 5	6	0
Purgatory	Harris	3	18
Drifter	Harris	4	47
Invaders	Harris	3	20
Children of the Damned	Harris	4	34
? The Prisoner	Smith, Harris	5	34
22 Acacia Avenue	Harris, Smith	6	34
) The Number of the Beast	Harris	4	25
Run to the Hills	Harris	3	50
Gangland	Smith, Burr	3	46
Hallowed Be Thy Name	Harris	7	8
Where Eagles Dare	Harris	6	8
Revelations	Dickinson	6	51
) Flight of Icarus	Smith, Dickinson	3	49
) Die with Your Boots On	Smith, Dickinson, Harris	5	22