

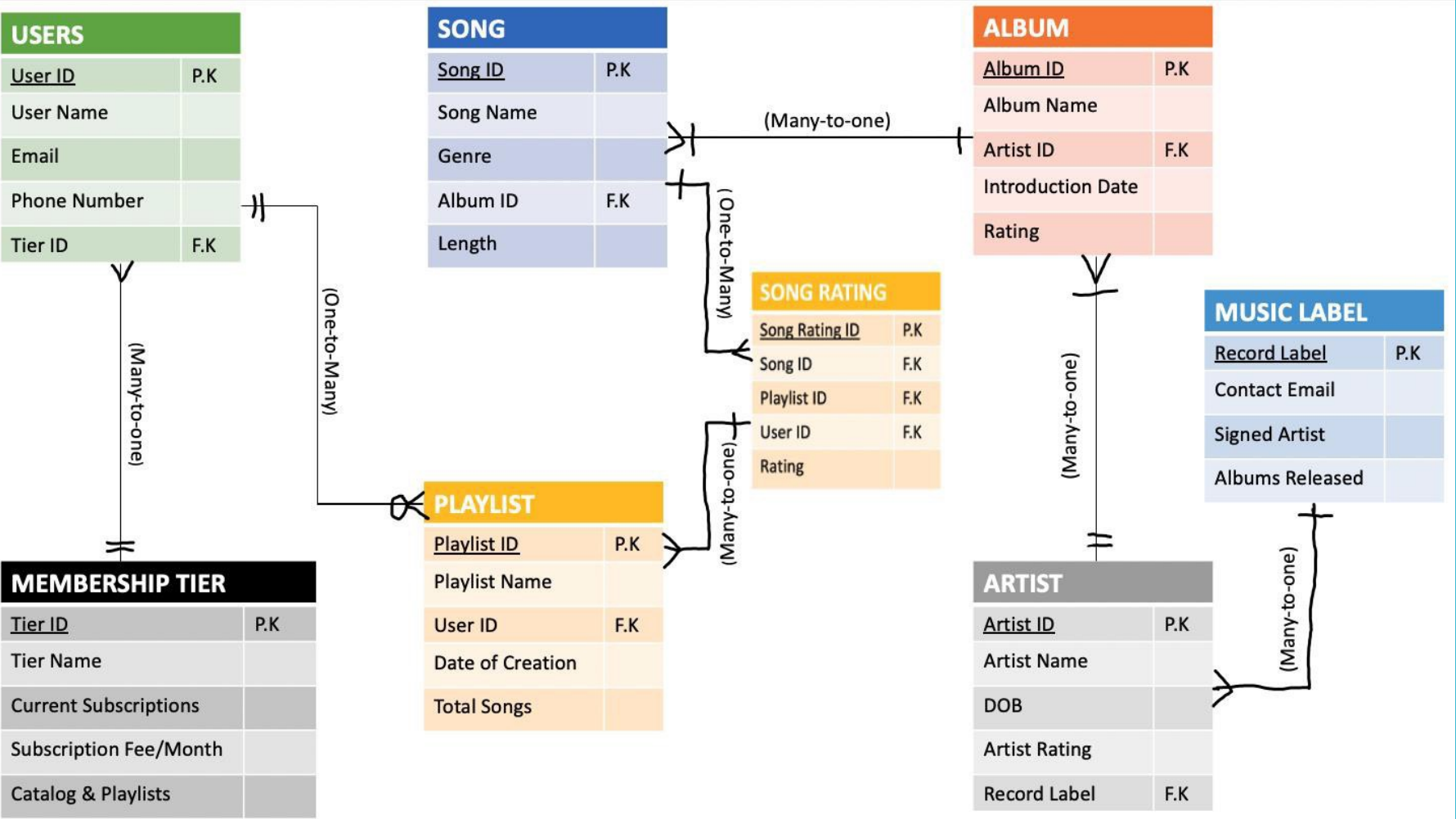
MUSIC APPLICATION

DATABASE MANAGEMENT DESIGN

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Entity-Relationship Diagram (ERD) for a media application similar to Spotify.



RELATIONSHIP DETAILS

- **Song- Album:**
Many-to-One
- **Album- Artist:**
Many-to-One
- **Artist- Music Label:**
Many-to-One.
- **Song- Playlist:**
Many-to-Many.
- **Users- Playlist:**
One-to-Many
- **User- Membership Tier:**
Many-to-One.

Entity Relationship (ER) Data Model Design

Based on the previously
created ERD.
Populated each Entity- with a
minimum of 5 records.

SONG				
<u>Song ID</u>	Song Name	Genre	<u>Album ID</u>	Length
S001	Nick of Time	Rock	AL01	3:54
S002	golden	pop	AL02	3:28
S003	Wildfire	Folk	AL03	3:37
S004	1969-The stooges	Rock	AL04	3:28
S005	Gravity	Rock	AL05	3:42

ALBUM				
<u>Album ID</u>	Album Name	<u>Artist ID</u>	Introduction Date	Rating
AL01	Nick of Time	AR01	7/10/1989	3.25
AL02	Fine Line	AR02	2/22/2019	4.00
AL03	Paradise Valley	AR03	5/18/2013	4.5
AL04	The Stooges	AR04	7/10/1989	3.25
AL05	Continuum	AR05	10/12/2006	3.75

ARTIST				
<u>Artist ID</u>	Artist Name	DOB	Artist Rating	<u>Record label</u>
AR01	Bonnie Raitt	7/7/1959	4.25	Capitol
AR02	Harry styles	6/9/1989	4.00	Columbia
AR03	John Mayer	6/9/1989	4.5	Mca
AR04	The Stooges	7/10/1989	4:25	Elektra
AR05	Adele	5/5/1988	3.75	Island

USER				
<u>User ID</u>	User Name	Email	Phone Number	<u>Tier ID</u>
U001	Steven Doe	Stdoe@sample.com	423-123-3456	R
U002	John Smith	Josmith@sample.com	423-345-6787	R
U003	Tom Smith	tosmith@sample.com	423-678-9108	G
U004	Bob Adams	boadam@sample.com	423-910-1129	p
U005	Emily Brown	embrow@sample.com	423-112-1314	G

PLAYLIST				
<u>Playlist ID</u>	Playlist Name	<u>User ID</u>	Date of Creation	Total Songs
PL01	Road Trip	U001	02/04/2010	15
PL02	Party Play	U002	04/06/2012	9
PL03	Motivational	U003	06/08/2014	6
PL04	Early Hours	U004	08/10/2016	10
PL05	Work Out	U005	10/12/2015	12

MUSIC LABEL			
<u>Record label</u>	Contact Email	Signed Artists	Albums Released
CAPITOL	capitol@work.com	257	4.75K
COLUMBIA	columbia@work.com	425	5K
MCA	mca@official.com	375	4.25K
ELEKTRA	elektra@info.com	109	3.75K
ISLAND	island@info.com	85	2.85K

MEMBERSHIP TIER				
<u>Tier ID</u>	Tier Name	Current subscriptions	Subscription Fee/Month	Catalog & Playlists
R	Regular	1000k	Free	Limited
G	Gold	700k	22\$	Unlimited
P	Premium	450K	32\$	Unlimited

SONG RATING				
<u>Song Rating ID</u>	<u>Song ID</u>	<u>PLAYLIST ID</u>	<u>User ID</u>	Rating
SR01	S001	PL01	U001	3.75
SR02	S002	PL02	U002	4.20
SR03	S003	PL03	U003	5
SR04	S004	PL04	U004	3:25
SR05	S005	PL05	U005	4.75

THANKYOU