



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

Music app database project

Database System Design (DS211)

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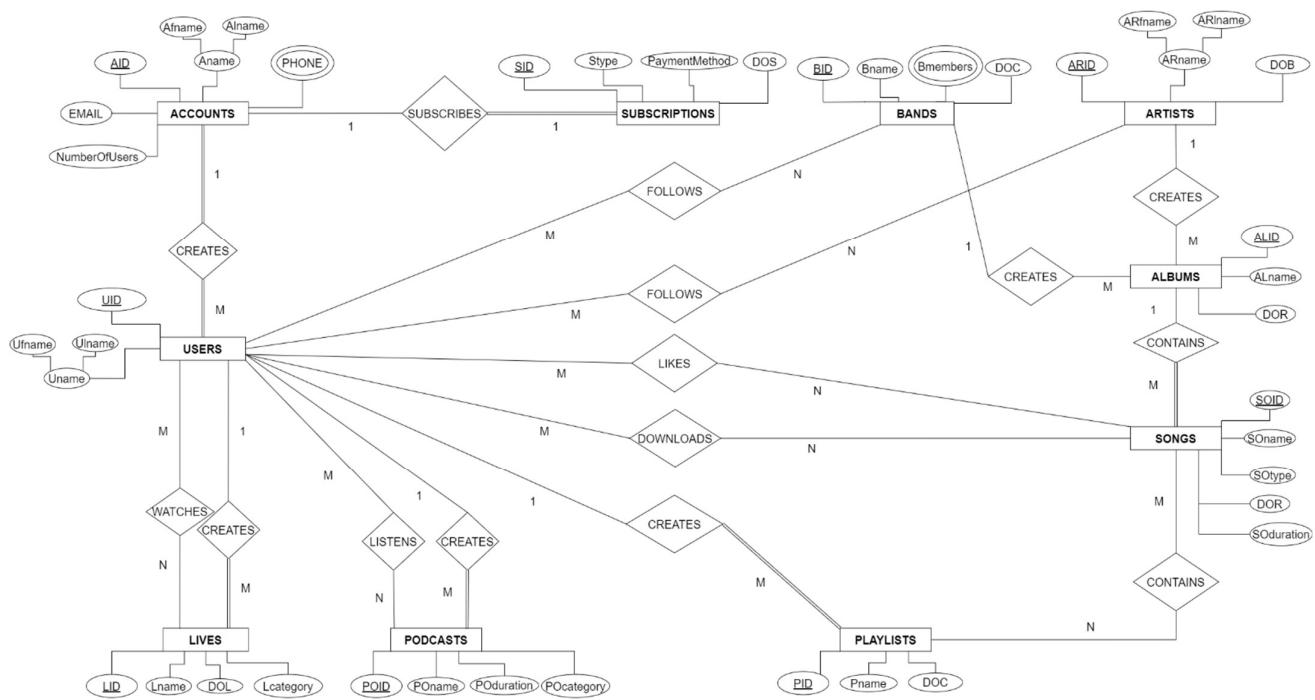
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Brief idea

The main idea of the project is to create a database of a music app such as Anghami. The project is built in such a way that the downloader firstly creates an account then it is compulsory to all the created **ACCOUNTS** to *create* at least one user and the account have the right to create various **USERS**. The created account is allowed to *subscribe* a **SUBSCRIPTION** where the creator is asked to pay a yearly fee depending on the type of subscription made. The app has a variety of options where the user is allowed to *create* or *watch LIVES* as well as *creating* or *listening* to **PODCASTS**. By moving to the musical part of the app we can say that each user can *create* multiple **PLAYLISTS** that *contains* many **SONGS**. Those songs are all *contained* in different **ALBUMS** which are either *created* by **ARTISTS** or **BANDS**. All the users can *like* or *download* various songs as much as they want. The users are also allowed to *follow* various artists or bands.

ERD



Relational schema diagram

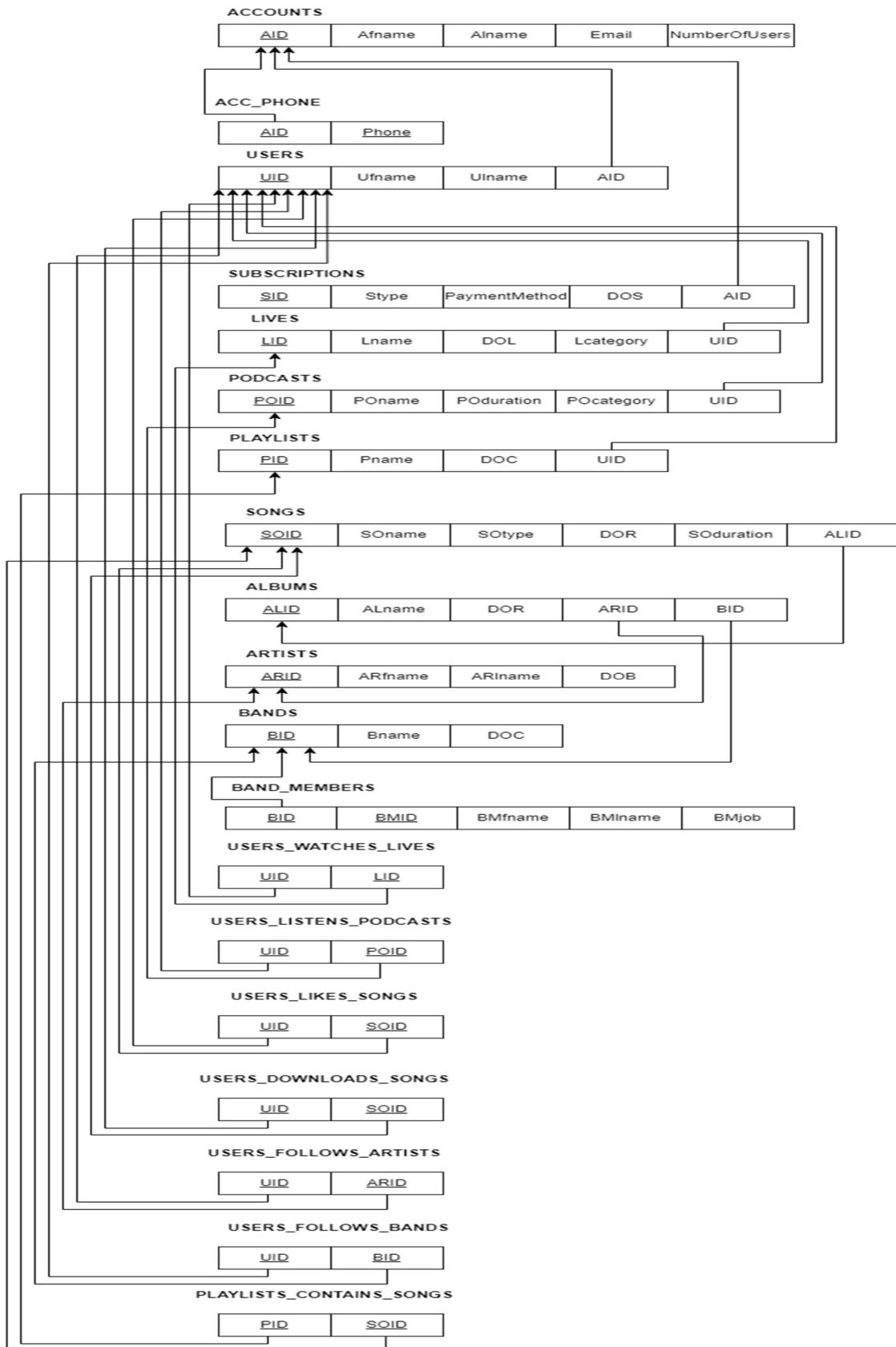


Table creation queries

```
CREATE TABLE ACCOUNTS(
    AID varchar(6) PRIMARY KEY,
    Afname varchar(20) NOT NULL,
    Alname varchar(20) NOT NULL,
    Email varchar(30) NOT NULL,
    NumberOfUsers int DEFAULT 1
);

CREATE TABLE Acc_Phone(
    AID varchar(6) NOT NULL,
    Phone varchar(11) UNIQUE NOT NULL,
    PRIMARY KEY(AID,Phone),
    FOREIGN KEY (AID) REFERENCES ACCOUNTS(AID)
);

CREATE TABLE USERS(
    UID varchar(6) PRIMARY KEY,
    Ufname varchar(20) NOT NULL,
    Ulname varchar(20) NOT NULL,
    AID varchar(6) NOT NULL,
    FOREIGN KEY (AID) REFERENCES ACCOUNTS(AID)
);
```

```
CREATE TABLE SUBSCRIPTIONS(
    SID varchar(6) PRIMARY KEY,
    Stype varchar(20) NOT NULL,
    PaymentMethod varchar(15) NOT NULL,
    DOS DATE NOT NULL,
    AID varchar(6) NOT NULL,
    FOREIGN KEY (AID) REFERENCES ACCOUNTS(AID)
);
```

```
CREATE TABLE LIVES(
    LID varchar(6) PRIMARY KEY,
    Lname varchar(20) NOT NULL,
    DOL DATE NOT NULL,
    Lcategory varchar(20) NOT NULL,
    UID varchar(6) NOT NULL,
    FOREIGN KEY (UID) REFERENCES USERS(UID)
);
```

```
CREATE TABLE PODCASTS(
    POID varchar(7) PRIMARY KEY,
    POname varchar(20) NOT NULL,
    PODuration int NOT NULL,
    POcategory varchar(20) NOT NULL,
    UID varchar(6) NOT NULL,
    FOREIGN KEY (UID) REFERENCES USERS(UID)
);
```

```
CREATE TABLE PLAYLISTS(
    PID varchar(6) PRIMARY KEY,
    Pname varchar(20) NOT NULL,
    DOC DATE NOT NULL,
    UID varchar(6) NOT NULL,
    FOREIGN KEY (UID) REFERENCES USERS(UID)
);
```

```
CREATE TABLE ARTISTS(
    ARID varchar(7) PRIMARY KEY,
    ARfname varchar(20) NOT NULL,
    ARlname varchar(20) NOT NULL,
    DOB DATE NOT NULL
);
```

```
CREATE TABLE BANDS(
    BID varchar(6) PRIMARY KEY,
    Bname varchar(20) NOT NULL,
    DOC DATE NOT NULL
);
```

```
CREATE TABLE BAND_MEMBERS(
    BID varchar(6) NOT NULL,
    BMID varchar(7) NOT NULL,
    BMfname varchar(20) NOT NULL,
    BMLname varchar(20) NOT NULL,
    BMjob varchar(20) NOT NULL,
    FOREIGN KEY (BID) REFERENCES BANDS(BID)
);
```

```
CREATE TABLE ALBUMS(
    ALID varchar(7) PRIMARY KEY,
    ALname varchar(20) NOT NULL,
    DOR DATE NOT NULL,
    ARID varchar(7),
    BID varchar(6),
    FOREIGN KEY (ARID) REFERENCES ARTISTS(ARID),
    FOREIGN KEY (BID) REFERENCES BANDS(BID)
);
```

```
CREATE TABLE SONGS(
    SOID varchar(7) PRIMARY KEY,
    SOname varchar(20) NOT NULL,
    S0type varchar(20) NOT NULL,
    DOR DATE NOT NULL,
    S0duration int NOT NULL,
    ALID varchar(7) NOT NULL,
    FOREIGN KEY (ALID) REFERENCES ALBUMS(ALID)
);
```

```
CREATE TABLE USERS_WATCHES_LIVES(
    UID varchar(6) NOT NULL,
    LID varchar(6) NOT NULL,
    PRIMARY KEY(UID,LID),
    FOREIGN KEY (UID) REFERENCES USERS(UID),
    FOREIGN KEY (LID) REFERENCES LIVES(LID)
);
```

```
CREATE TABLE USERS_LISTENS_PODCASTS(
    UID varchar(6) NOT NULL,
    POID varchar(7) NOT NULL,
    PRIMARY KEY(UID,POID),
    FOREIGN KEY (UID) REFERENCES USERS(UID),
    FOREIGN KEY (POID) REFERENCES PODCASTS(POID)
);

CREATE TABLE USERS_LIKES_SONGS(
    UID varchar(6) NOT NULL,
    SOID varchar(7) NOT NULL,
    PRIMARY KEY(UID,SOID),
    FOREIGN KEY (UID) REFERENCES USERS(UID),
    FOREIGN KEY (SOID) REFERENCES SONGS(SOID)
);

CREATE TABLE USERS_DOWNLOADS_SONGS(
    UID varchar(6) NOT NULL,
    SOID varchar(7) NOT NULL,
    PRIMARY KEY(UID,SOID),
    FOREIGN KEY (UID) REFERENCES USERS(UID),
    FOREIGN KEY (SOID) REFERENCES SONGS(SOID)
);
```

```
CREATE TABLE USERS_FOLLOW_ARTISTS(
    UID varchar(6) NOT NULL,
    ARID varchar(7) NOT NULL,
    PRIMARY KEY(UID,ARID),
    FOREIGN KEY (UID) REFERENCES USERS(UID),
    FOREIGN KEY (ARID) REFERENCES ARTISTS(ARID)
);
```

```
CREATE TABLE USERS_FOLLOW_BANDS(
    UID varchar(6) NOT NULL,
    BID varchar(6) NOT NULL,
    PRIMARY KEY(UID,BID),
    FOREIGN KEY (UID) REFERENCES USERS(UID),
    FOREIGN KEY (BID) REFERENCES BANDS(BID)
);
```

```
CREATE TABLE PLAYLISTS_CONTAINS_SONGS(
    PID varchar(6) NOT NULL,
    SOID varchar(7) NOT NULL,
    PRIMARY KEY(PID,SOID),
    FOREIGN KEY (PID) REFERENCES PLAYLISTS(PID),
    FOREIGN KEY (SOID) REFERENCES SONGS(SOID)
);
```

Tables before insertion

Main entities:

TABLE NAME	TABLE
ACCOUNTS	AID Afname Alname Email NumberOfUsers
USERS	UID Ufname Ulname AID
SUBSCRIPTIONS	SID SType PaymentMethod DOS AID
LIVES	LID Lname DOL Lcategory UID
PODCASTS	POID POname POduration POcategory UID
ARTISTS	ARID ARfname ARlname DOB
BANDS	BID Bname DOC
ALBUMS	ALID ALname DOR ARID BID
SONGS	SOID SOname SOType DOR SOduration ALID
PLAYLISTS	PID Pname DOC UID

Multivalued attributes:

TABLE NAME	TABLE
Acc_Phone	AID Phone
BAND_MEMBERS	BID BMID BMfname BMlname BMjob

Many to many relations:

TABLE NAME	TABLE
USERS_WATCHES_LIVES	UID LID
USERS_LISTENS_PODCASTS	UID POID
USERS_LIKES_SONGS	UID SOID
USERS_DOWNLOADS_SONGS	UID SOID
USERS_FOLLOWES_ARTISTS	UID ARID
USERS_FOLLOWES_BANDS	UID BID
PLAYLISTS_CONTAINS_SONGS	PID SOID

Insertion queries

```
INSERT INTO `ACCOUNTS` VALUES  
( 'A00001', 'Belal', 'Sameh', 'belalsameh188@gmail.com' ,2),  
( 'A00002', 'Haya', 'Medhat', 'hayamedhat17@gmail.com' ,4),  
( 'A00003', 'Mohamed', 'Youssef', 'momado555@gmail.com' ,3),  
( 'A00004', 'Hazem', 'Metwalli', 'hazemetwalli@gmail.com' ,1),  
( 'A00005', 'Mohamed', 'Abdulraheem', 'moraheem912@gmail.com' ,2),  
( 'A00006', 'Begad', 'Tamim', 'begadtamim23@gmail.com' ,1),  
( 'A00007', 'Karol', 'Michel', 'karolmichel912@gmail.com' ,1),  
( 'A00008', 'Adham', 'Ahmed', 'adhamahmed@gmail.com' ,2),  
( 'A00009', 'Abdulrahman', 'Khaled', 'abdul154@gmail.com' ,5),  
( 'A00010', 'Youssef', 'Ayman', 'youssefayman@gmail.com' ,1);
```

```
INSERT INTO `USERS` VALUES
```

```
( 'U00001', 'Belals', 'phone', 'A00001'),  
( 'U00002', 'Belals', 'laptop', 'A00001'),  
( 'U00003', 'Hayas', 'phone', 'A00002'),  
( 'U00004', 'Hayas', 'laptop', 'A00002'),  
( 'U00005', 'Hayas', 'brother', 'A00002'),  
( 'U00006', 'Hayas', 'father', 'A00002'),  
( 'U00007', 'Mos', 'phone', 'A00003'),  
( 'U00008', 'Mos', 'laptop', 'A00003'),  
( 'U00009', 'Mos', 'sister', 'A00003'),  
( 'U00010', 'Hazems', 'phone', 'A00004'),  
( 'U00011', 'Mos', 'phone', 'A00005'),  
( 'U00012', 'Mos', 'laptop', 'A00005'),  
( 'U00013', 'Begads', 'phone', 'A00006'),  
( 'U00014', 'Karols', 'phone', 'A00007'),  
( 'U00015', 'Adhams', 'phone', 'A00008'),  
( 'U00016', 'Adhams', 'father', 'A00008'),
```

```
('U00017','Abduls','phone','A00009'),  
('U00018','Abduls','laptop','A00009'),  
('U00019','Abduls','ipad','A00009'),  
('U00020','Abduls','father','A00009'),  
('U00021','Abduls','phone2','A00009'),  
('U00022','Spookis','phone','A00010');
```

```
INSERT INTO `SUBSCRIPTIONS`VALUES  
('S00001','Family','Vodafone cash','2020-10-22','A00001'),  
('S00002','Premium','Credit card','2018-05-13','A00002'),  
('S00003','VIP','Fawry','2022-11-09','A00003'),  
('S00004','Family','Vodafone cash','2017-08-01','A00005'),  
('S00005','Family','Credit card','2021-07-18','A00008'),  
('S00006','VIP','Credit card','2013-01-12','A00009');
```

```
INSERT INTO `LIVES`VALUES  
('L00001','For fun','2020-04-13','Comedy','U00007'),  
('L00002','World cup final','2022-12-18','Sports','U00001'),  
('L00003','Ai','2021-10-13','Education','U00008'),  
('L00004','Makeup','2022-01-01','Fashion','U00003'),  
('L00005','WW3','2021-12-24','Politics','U00011'),  
('L00006','FIFA 23','2022-09-29','Gaming','U00015');
```

```
INSERT INTO `PODCASTS`VALUES  
('P000001','Piano',15,'Music','U00017'),  
('P000002','Guitar',57,'Music','U00017'),  
('P000003','Premier league',91,'Sports','U00007'),  
('P000004','Human rights',145,'Politics','U00003'),  
('P000005','Life in UAE',12,'Lifestyle','U00011'),  
('P000006','CR7 career',85,'Sports','U00015');
```

```
INSERT INTO `PLAYLISTS` VALUES  
( 'P00001', 'Pheeeeew', '2022-11-10', 'U00001' ),  
( 'P00002', 'RAP', '2020-12-01', 'U00001' ),  
( 'P00003', 'English', '2021-09-13', 'U00002' ),  
( 'P00004', 'Sleep', '2019-01-01', 'U00002' ),  
( 'P00005', 'Hype', '2018-06-12', 'U00002' ),  
( 'P00006', 'Car', '2021-01-14', 'U00003' ),  
( 'P00007', 'Study', '2022-02-23', 'U00003' ),  
( 'P00008', 'Home', '2021-02-21', 'U00004' ),  
( 'P00009', 'Arabic', '2019-05-26', 'U00005' ),  
( 'P00010', 'English', '2018-03-05', 'U00006' ),  
( 'P00011', 'Study', '2017-12-30', 'U00007' ),  
( 'P00012', 'Sleep', '2019-11-22', 'U00007' ),  
( 'P00013', 'Bath', '2020-12-18', 'U00008' ),  
( 'P00014', 'Travel', '2022-02-17', 'U00009' ),  
( 'P00015', 'All', '2022-05-16', 'U00010' ),  
( 'P00016', 'Rap', '2021-11-12', 'U00011' ),  
( 'P00017', 'English', '2020-10-10', 'U00012' ),  
( 'P00018', 'All', '2018-12-12', 'U00013' ),  
( 'P00019', 'Vibe', '2017-09-09', 'U00014' ),  
( 'P00020', 'Rock', '2019-04-06', 'U00016' ),  
( 'P00021', 'Calm', '2015-07-05', 'U00017' ),  
( 'P00022', 'Rock', '2019-04-02', 'U00018' ),  
( 'P00023', 'Rap', '2022-02-02', 'U00019' ),  
( 'P00024', 'Favourites', '2021-01-01', 'U00020' );
```

```
INSERT INTO `ARTISTS` VALUES  
( 'AR00001', 'Marwan', 'Moussa', '1995-01-10' ),  
( 'AR00002', 'Marwan', 'Pablo', '1995-11-22' ),
```

```
( 'AR00003' , 'Aby' , 'usif' , '1985-03-21' ),  
( 'AR00004' , 'Afroto' , 'Alexandria' , '1997-02-07' ),  
( 'AR00005' , 'Amr' , 'Diab' , '1961-10-11' ),  
( 'AR00006' , 'Tamer' , 'Hosny' , '1977-08-16' ),  
( 'AR00007' , 'Wegz' , 'Elfnan' , '1998-09-11' ),  
( 'AR00008' , 'Abo' , 'Elanwar' , '1999-03-26' ),  
( 'AR00009' , 'Anne' , 'Marie' , '1991-04-07' ),  
( 'AR00010' , 'Billie' , 'Eilish' , '2001-12-18' );
```

```
INSERT INTO `BANDS` VALUES  
( 'B00001' , 'Cairokee' , '2011-06-10' ),  
( 'B00002' , 'Imagine dragons' , '2008-01-24' ),  
( 'B00003' , 'Sharmoofers' , '2012-12-15' ),  
( 'B00004' , 'Arctic monkeys' , '2002-07-18' ),  
( 'B00005' , 'Twenty one pilots' , '2009-11-23' );
```

```
INSERT INTO `BAND_MEMBERS` VALUES  
( 'B00001' , 'BM00001' , 'Amir' , 'Eid' , 'Singer' ),  
( 'B00001' , 'BM00002' , 'Sherif' , 'El Hawary' , 'Electric guitar' ),  
( 'B00001' , 'BM00003' , 'Tamer' , 'Hashem' , 'Drums' ),  
( 'B00001' , 'BM00004' , 'Sherif' , 'Mostafa' , 'Keyboard' ),  
( 'B00001' , 'BM00005' , 'Adam' , 'El Alfy' , 'Bass guitar' ),  
( 'B00002' , 'BM00006' , 'Dan' , 'Reynolds' , 'Singer' ),  
( 'B00002' , 'BM00007' , 'Wayne' , 'Sermon' , 'Electric guitar' ),  
( 'B00002' , 'BM00008' , 'Ben' , 'McKee' , 'Bass guitar' ),  
( 'B00002' , 'BM00009' , 'Daniel' , 'Platzman' , 'Drums' ),  
( 'B00003' , 'BM00010' , 'Ahmed' , 'Bahaa' , 'Singer' ),  
( 'B00003' , 'BM00011' , 'Mohamed' , 'El Arkan' , 'Bass guitar' ),  
( 'B00003' , 'BM00012' , 'Mostafa' , 'El Kardany' , 'Drums' ),  
( 'B00004' , 'BM00013' , 'Alex' , 'Turner' , 'Singer' ),
```

```
('B00004','BM00014','Jamie','Cook','Keyboard'),  
('B00004','BM00015','Matt','Helders','drums'),  
('B00004','BM00016','Nick','OMalley','Bass guitar'),  
('B00005','BM00017','Tyler','Joseph','Singer'),  
('B00005','BM00018','Josh','Dun','Drums');
```

```
INSERT INTO `Acc_Phone` VALUES
```

```
('A00001','01093231831'),  
('A00002','01205494945'),  
('A00002','01156398504'),  
('A00003','01067810849'),  
('A00004','01104316361'),  
('A00004','01154924558'),  
('A00005','01110820292'),  
('A00006','01003225159'),  
('A00007','01001148227'),  
('A00008','01090664555'),  
('A00009','01284991464'),  
('A00009','01515715487'),  
('A00010','01001340726');
```

```
INSERT INTO `ALBUMS`(`ALID`, `ALname`, `DOR`, `ARID`) VALUES  
('AL00001','3a2d e7traf','2022-06-12','AR00001'),  
('AL00002','Florida','2021-01-12','AR00001'),  
('AL00003','Control','2021-02-20','AR00002'),  
('AL00004','Ras Shetan','2022-07-05','AR00003'),  
('AL00005','San stefano','2022-06-09','AR00004'),  
('AL00006','Kol 7yat','2018-10-20','AR00005'),  
('AL00007','3ysh bsho2k','2018-07-15','AR00006'),  
('AL00008','Control','2021-02-20','AR00007'),
```

```

('AL00009','Fakret el sa7el','2020-03-15','AR00008'),
('AL00010','Speak your mind','2018-04-17','AR00009'),
('AL00011','Happier than ever','2021-07-20','AR00010');

INSERT INTO `ALBUMS`(`ALID`, `ALname`, `DOR`, `BID`) VALUES
('AL00012','Roma','2022-09-23','B00001'),
('AL00013','No2ta beda','2017-07-12','B00001'),
('AL00014','Evolve','2017-06-14','B00002'),
('AL00015','Night visions','2013-01-01','B00002'),
('AL00016','Paranoia','2015-09-09','B00003'),
('AL00017','AM','2013-09-20','B00004'),
('AL00018','Blurryface','2015-05-04','B00005');

INSERT INTO `SONGS`VALUES
('S000001','7dota almany','RAP','2022-06-12',3,'AL00001'),
('S000002','Panaroma','RAP','2022-06-18',4,'AL00001'),
('S000003','s7md','RAP','2022-06-20',5,'AL00001'),
('S000004','Tesla','RAP','2021-01-12',4,'AL00002'),
('S000005','Sheraton','RAP','2021-01-18',4,'AL00002'),
('S000006','Dasani','RAP','2021-01-20',3,'AL00002'),
('S000007','Control','RAP','2021-02-20',3,'AL00003'),
('S000008','Ghaba','RAP','2021-02-20',3,'AL00003'),
('S000009','A5oya','RAP','2022-07-05',3,'AL00004'),
('S000010','Maged elmasry','RAP','2022-07-05',3,'AL00004'),
('S000011','San stefano','RAP','2022-06-09',3,'AL00005'),
('S000012','Napalm','RAP','2022-06-09',3,'AL00005'),
('S000013','Mareed','RAP','2022-06-09',5,'AL00005'),
('S000014','Yt3lmo','Arabic','2018-10-20',5,'AL00006'),
('S000015','Bayen 7abeet','Arabic','2018-10-30',5,'AL00006'),
('S000016','3ysh bsho2k','Arabic','2018-07-15',4,'AL00007'),

```

```
('S000017','Naseny leeh','Arabic','2018-07-22',5,'AL00007'),  
('S000018','Skrty','RAP','2021-02-20',4,'AL00008'),  
('S000019','8alaba','RAP','2020-03-15',3,'AL00009'),  
('S000020','Barat','RAP','2020-03-15',4,'AL00009'),  
('S000021','2002','English','2018-04-17',3,'AL00010'),  
('S000022','Ciao adios','English','2018-04-27',3,'AL00010'),  
('S000023','Alarm','English','2018-04-30',4,'AL00010'),  
('S000024','Happier than ever','English','2021-07-20',4,'AL00011'),  
('S000025','Lost cause','English','2021-08-20',4,'AL00011'),  
('S000026','James dean','Arabic indie','2022-09-23',4,'AL00012'),  
('S000027','Bsr7 w atoh','Arabic indie','2022-09-30',4,'AL00012'),  
('S000028','Samurai','Arabic indie','2022-09-23',4,'AL00012'),  
('S000029','Laila','Arabic indie','2017-07-12',4,'AL00013'),  
('S000030','El seka shmal','Arabic indie','2017-07-15',4,'AL00013'),  
('S000031','Believer','Rock','2017-06-14',4,'AL00014'),  
('S000032','Thunder','Rock','2017-06-14',4,'AL00014'),  
('S000033','Demons','Rock','2013-01-01',4,'AL00015'),  
('S000034','5las hasytr','Arabic indie','2015-09-09',4,'AL00016'),  
('S000035','Msh far2a','Arabic indie','2015-09-19',4,'AL00016'),  
('S000036','I wanna be yours','Rock','2013-09-20',4,'AL00017'),  
('S000037','Do i wanna know?','Rock','2013-09-20',3,'AL00017'),  
('S000038','Stressed out','Rock','2015-05-04',4,'AL00018'),  
('S000039','Hometown','Rock','2015-05-04',5,'AL00018');
```

```
INSERT INTO `USERS_WATCHES_LIVES` VALUES
```

```
('U00001','L00001'),  
('U00002','L00001'),  
('U00003','L00001'),  
('U00004','L00001'),  
('U00005','L00001'),
```

```
('U00006','L00001'),  
('U00008','L00001'),  
('U00002','L00002'),  
('U00003','L00002'),  
('U00004','L00002'),  
('U00005','L00002'),  
('U00006','L00002'),  
('U00007','L00002'),  
('U00014','L00002'),  
('U00015','L00002'),  
('U00016','L00002'),  
('U00017','L00002'),  
('U00001','L00003'),  
('U00009','L00003'),  
('U00010','L00003'),  
('U00011','L00003'),  
('U00012','L00003'),  
('U00019','L00003'),  
('U00022','L00003'),  
('U00004','L00004'),  
('U00005','L00004'),  
('U00006','L00004'),  
('U00014','L00004'),  
('U00001','L00005'),  
('U00002','L00005'),  
('U00003','L00005'),  
('U00004','L00005'),  
('U00005','L00005'),  
('U00006','L00005'),  
('U00007','L00005'),
```

```
('U00018','L00005'),  
('U00016','L00005'),  
('U00017','L00005'),  
('U00020','L00005'),  
('U00007','L00006'),  
('U00002','L00006'),  
('U00003','L00006'),  
('U00004','L00006'),  
('U00001','L00006'),  
('U00012','L00006'),  
('U00017','L00006'),  
('U00020','L00006');
```

```
INSERT INTO `USERS_LISTENS_PODCASTS`VALUES  
('U00001','P000001'),  
('U00003','P000001'),  
('U00007','P000001'),  
('U00012','P000001'),  
('U00002','P000002'),  
('U00003','P000002'),  
('U00007','P000002'),  
('U00012','P000002'),  
('U00009','P000002'),  
('U00008','P000002'),  
('U00013','P000002'),  
('U00022','P000002'),  
('U00001','P000003'),  
('U00002','P000003'),  
('U00003','P000003'),  
('U00004','P000003'),
```

```
('U00006','P000003'),  
('U00018','P000003'),  
('U00012','P000003'),  
('U00010','P000003'),  
('U00011','P000003'),  
('U00016','P000003'),  
('U00001','P000004'),  
('U00002','P000004'),  
('U00007','P000004'),  
('U00004','P000004'),  
('U00005','P000004'),  
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INSERT INTO `USERS_LIKES_SONGS` VALUES  
('U00001','S000001'),  
('U00001','S000002'),  
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('U00002','S000005'),  
('U00002','S000006'),  
('U00002','S000007'),
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('U00018','S000025'),  
('U00020','S000026'),  
('U00021','S000027'),  
('U00022','S000028'),  
('U00022','S000029');
```

```
INSERT INTO `USERS_DOWNLOADS_SONGS` VALUES  
('U00001','S000001'),  
('U00001','S000002'),  
('U00001','S000003'),  
('U00001','S000019'),  
('U00002','S000001'),  
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```
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('U00020','S000026'),  
('U00021','S000027'),  
('U00022','S000028'),  
('U00022','S000029');
```

```
INSERT INTO `USERS_FOLLOW_ARTISTS` VALUES  
('U00001','AR00001'),  
('U00001','AR00002'),  
('U00001','AR00003'),  
('U00001','AR00004'),  
('U00001','AR00007'),  
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```
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('U00009','AR00009'),  
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('U00010','AR00001'),  
('U00010','AR00002'),  
('U00011','AR00003'),
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('U00021','AR00002'),  
('U00021','AR00003'),  
('U00022','AR00004'),  
('U00022','AR00007'),  
('U00022','AR00008');
```

```
INSERT INTO `USERS_FOLLOW_BANDS` VALUES  
('U00001','B00001'),  
('U00001','B00002'),  
('U00001','B00003'),  
('U00001','B00004'),  
('U00001','B00005'),  
('U00002','B00004'),  
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('U00022','B00003'),  
('U00022','B00004'),  
('U00022','B00005');
```

```
INSERT INTO `PLAYLISTS_CONTAINS_SONGS` VALUES
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('P00001','S000026'),  
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```
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('P00007','S000002'),  
('P00007','S000003'),
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('P00024','S000035'),  
('P00024','S000036'),  
('P00024','S000037'),  
('P00024','S000038'),  
('P00024','S000039');
```

Table after insertion

Main entities:

ACCOUNTS

	AID	Afname	Alname	Email	NumberOfUsers	
<input type="checkbox"/>	Edit Copy Delete	A00001	Belal	Sameh	belalsameh188@gmail.com	2
<input type="checkbox"/>	Edit Copy Delete	A00002	Haya	Medhat	hayamedhat17@gmail.com	4
<input type="checkbox"/>	Edit Copy Delete	A00003	Mohamed	Youssef	momado555@gmail.com	3
<input type="checkbox"/>	Edit Copy Delete	A00004	Hazem	Metwalli	hazemetwalli@gmail.com	1
<input type="checkbox"/>	Edit Copy Delete	A00005	Mohamed	Abdulraheem	moraheem912@gmail.com	2
<input type="checkbox"/>	Edit Copy Delete	A00006	Begad	Tamim	begadtamim23@gmail.com	1
<input type="checkbox"/>	Edit Copy Delete	A00007	Karol	Michel	karolmichel912@gmail.com	1
<input type="checkbox"/>	Edit Copy Delete	A00008	Adham	Ahmed	adhamahmed@gmail.com	2
<input type="checkbox"/>	Edit Copy Delete	A00009	Abdulrahman	Khaled	abdul154@gmail.com	5
<input type="checkbox"/>	Edit Copy Delete	A00010	Youssef	Ayman	youssefayman@gmail.com	1

USERS

	UID	Ufname	Ulname	AID	
<input type="checkbox"/>	Edit Copy Delete	U00001	Belals	phone	A00001
<input type="checkbox"/>	Edit Copy Delete	U00002	Belals	laptop	A00001
<input type="checkbox"/>	Edit Copy Delete	U00003	Hayas	phone	A00002
<input type="checkbox"/>	Edit Copy Delete	U00004	Hayas	laptop	A00002
<input type="checkbox"/>	Edit Copy Delete	U00005	Hayas	brother	A00002
<input type="checkbox"/>	Edit Copy Delete	U00006	Hayas	father	A00002
<input type="checkbox"/>	Edit Copy Delete	U00007	Mos	phone	A00003
<input type="checkbox"/>	Edit Copy Delete	U00008	Mos	laptop	A00003
<input type="checkbox"/>	Edit Copy Delete	U00009	Mos	sister	A00003
<input type="checkbox"/>	Edit Copy Delete	U00010	Hazems	phone	A00004
<input type="checkbox"/>	Edit Copy Delete	U00011	Mos	phone	A00005
<input type="checkbox"/>	Edit Copy Delete	U00012	Mos	laptop	A00005
<input type="checkbox"/>	Edit Copy Delete	U00013	Begads	phone	A00006
<input type="checkbox"/>	Edit Copy Delete	U00014	Karols	phone	A00007
<input type="checkbox"/>	Edit Copy Delete	U00015	Adhams	phone	A00008
<input type="checkbox"/>	Edit Copy Delete	U00016	Adhams	father	A00008
<input type="checkbox"/>	Edit Copy Delete	U00017	Abduls	phone	A00009
<input type="checkbox"/>	Edit Copy Delete	U00018	Abduls	laptop	A00009
<input type="checkbox"/>	Edit Copy Delete	U00019	Abduls	ipad	A00009
<input type="checkbox"/>	Edit Copy Delete	U00020	Abduls	father	A00009
<input type="checkbox"/>	Edit Copy Delete	U00021	Abduls	phone2	A00009
<input type="checkbox"/>	Edit Copy Delete	U00022	Spookis	phone	A00010

SUBSCRIPTIONS

	<input type="checkbox"/>				SID	Type	PaymentMethod	DOS	AID
	<input type="checkbox"/>				S00001	Family	Vodafone cash	2020-10-22	A00001
	<input type="checkbox"/>				S00002	Premium	Credit card	2018-05-13	A00002
	<input type="checkbox"/>				S00003	VIP	Fawry	2022-11-09	A00003
	<input type="checkbox"/>				S00004	Family	Vodafone cash	2017-08-01	A00005
	<input type="checkbox"/>				S00005	Family	Credit card	2021-07-18	A00008
	<input type="checkbox"/>				S00006	VIP	Credit card	2013-01-12	A00009

LIVES

	<input type="checkbox"/>				LID	Lname	DOL	Lcategory	UID
	<input type="checkbox"/>				L00001	For fun	2020-04-13	Comedy	U00007
	<input type="checkbox"/>				L00002	World cup final	2022-12-18	Sports	U00001
	<input type="checkbox"/>				L00003	Ai	2021-10-13	Education	U00008
	<input type="checkbox"/>				L00004	Makeup	2022-01-01	Fashion	U00003
	<input type="checkbox"/>				L00005	WW3	2021-12-24	Politics	U00011
	<input type="checkbox"/>				L00006	FIFA 23	2022-09-29	Gaming	U00015

PODCASTS

	<input type="checkbox"/>				POID	POname	POduration	POcategory	UID
	<input type="checkbox"/>				PO00001	Piano	15	Music	U00017
	<input type="checkbox"/>				PO00002	Guitar	57	Music	U00017
	<input type="checkbox"/>				PO00003	Premier league	91	Sports	U00007
	<input type="checkbox"/>				PO00004	Human rights	145	Politics	U00003
	<input type="checkbox"/>				PO00005	Life in UAE	12	Lifestyle	U00011
	<input type="checkbox"/>				PO00006	CR7 career	85	Sports	U00015

PLAYLISTS

	<input type="checkbox"/>				PID	Pname	DOC	UID
	<input type="checkbox"/>				P00001	Pheeeeew	2022-11-10	U00001
	<input type="checkbox"/>				P00002	RAP	2020-12-01	U00001
	<input type="checkbox"/>				P00003	English	2021-09-13	U00002
	<input type="checkbox"/>				P00004	Sleep	2019-01-01	U00002
	<input type="checkbox"/>				P00005	Hype	2018-06-12	U00002
	<input type="checkbox"/>				P00006	Car	2021-01-14	U00003
	<input type="checkbox"/>				P00007	Study	2022-02-23	U00003
	<input type="checkbox"/>				P00008	Home	2021-02-21	U00004
	<input type="checkbox"/>				P00009	Arabic	2019-05-26	U00005
	<input type="checkbox"/>				P00010	English	2018-03-05	U00006
	<input type="checkbox"/>				P00011	Study	2017-12-30	U00007
	<input type="checkbox"/>				P00012	Sleep	2019-11-22	U00007
	<input type="checkbox"/>				P00013	Bath	2020-12-18	U00008
	<input type="checkbox"/>				P00014	Travel	2022-02-17	U00009
	<input type="checkbox"/>				P00015	All	2022-05-16	U00010
	<input type="checkbox"/>				P00016	Rap	2021-11-12	U00011
	<input type="checkbox"/>				P00017	English	2020-10-10	U00012
	<input type="checkbox"/>				P00018	All	2018-12-12	U00013
	<input type="checkbox"/>				P00019	Vibe	2017-09-09	U00014
	<input type="checkbox"/>				P00020	Rock	2019-04-06	U00016
	<input type="checkbox"/>				P00021	Calm	2015-07-05	U00017
	<input type="checkbox"/>				P00022	Rock	2019-04-02	U00018
	<input type="checkbox"/>				P00023	Rap	2022-02-02	U00019
	<input type="checkbox"/>				P00024	Favourites	2021-01-01	U00020

ARTISTS

	ARID	ARfname	ARIname	DOB
<input type="checkbox"/>	AR00001	Marwan	Moussa	1995-01-10
<input type="checkbox"/>	AR00002	Marwan	Pablo	1995-11-22
<input type="checkbox"/>	AR00003	Aby	usif	1985-03-21
<input type="checkbox"/>	AR00004	Afroto	Alexandria	1997-02-07
<input type="checkbox"/>	AR00005	Amr	Diab	1961-10-11
<input type="checkbox"/>	AR00006	Tamer	Hosny	1977-08-16
<input type="checkbox"/>	AR00007	Wegz	Elfnan	1998-09-11
<input type="checkbox"/>	AR00008	Abo	Elanwar	1999-03-26
<input type="checkbox"/>	AR00009	Anne	Marie	1991-04-07
<input type="checkbox"/>	AR00010	Billie	Eilish	2001-12-18

BANDS

	BID	Bname	DOC
<input type="checkbox"/>	B00001	Cairokee	2011-06-10
<input type="checkbox"/>	B00002	Imagine dragons	2008-01-24
<input type="checkbox"/>	B00003	Sharmoofers	2012-12-15
<input type="checkbox"/>	B00004	Arctic monkeys	2002-07-18
<input type="checkbox"/>	B00005	Twenty one pilots	2009-11-23

ALBUMS

	ALID	ALname	DOR	ARID	BID
<input type="checkbox"/>	AL00001	3a2d e7traf	2022-06-12	AR00001	NULL
<input type="checkbox"/>	AL00002	Florida	2021-01-12	AR00001	NULL
<input type="checkbox"/>	AL00003	Control	2021-02-20	AR00002	NULL
<input type="checkbox"/>	AL00004	Ras Shetan	2022-07-05	AR00003	NULL
<input type="checkbox"/>	AL00005	San stefano	2022-06-09	AR00004	NULL
<input type="checkbox"/>	AL00006	Kol 7yaty	2018-10-20	AR00005	NULL
<input type="checkbox"/>	AL00007	3ysh bsho2k	2018-07-15	AR00006	NULL
<input type="checkbox"/>	AL00008	Control	2021-02-20	AR00007	NULL
<input type="checkbox"/>	AL00009	Fakret el sa7el	2020-03-15	AR00008	NULL
<input type="checkbox"/>	AL00010	Speak your mind	2018-04-17	AR00009	NULL
<input type="checkbox"/>	AL00011	Happier than ever	2021-07-20	AR00010	NULL
<input type="checkbox"/>	AL00012	Roma	2022-09-23	NULL	B00001
<input type="checkbox"/>	AL00013	No2ta beda	2017-07-12	NULL	B00001
<input type="checkbox"/>	AL00014	Evolve	2017-06-14	NULL	B00002
<input type="checkbox"/>	AL00015	Night visions	2013-01-01	NULL	B00002
<input type="checkbox"/>	AL00016	Paranoia	2015-09-09	NULL	B00003
<input type="checkbox"/>	AL00017	AM	2013-09-20	NULL	B00004
<input type="checkbox"/>	AL00018	Blurryface	2015-05-04	NULL	B00005

SONGS

	<input type="checkbox"/>				SOID	SOname	SOtype	DOR	SOduration	ALID
	<input type="checkbox"/>				SO00001	7dota almany	RAP	2022-06-12	3	AL00001
	<input type="checkbox"/>				SO00002	Panaroma	RAP	2022-06-18	4	AL00001
	<input type="checkbox"/>				SO00003	s7md	RAP	2022-06-20	5	AL00001
	<input type="checkbox"/>				SO00004	Tesla	RAP	2021-01-12	4	AL00002
	<input type="checkbox"/>				SO00005	Sheraton	RAP	2021-01-18	4	AL00002
	<input type="checkbox"/>				SO00006	Dasani	RAP	2021-01-20	3	AL00002
	<input type="checkbox"/>				SO00007	Control	RAP	2021-02-20	3	AL00003
	<input type="checkbox"/>				SO00008	Ghaba	RAP	2021-02-20	3	AL00003
	<input type="checkbox"/>				SO00009	A5oya	RAP	2022-07-05	3	AL00004
	<input type="checkbox"/>				SO00010	Maged elmasry	RAP	2022-07-05	3	AL00004
	<input type="checkbox"/>				SO00011	San stefano	RAP	2022-06-09	3	AL00005
	<input type="checkbox"/>				SO00012	Napalm	RAP	2022-06-09	3	AL00005
	<input type="checkbox"/>				SO00013	Mareed	RAP	2022-06-09	5	AL00005
	<input type="checkbox"/>				SO00014	Yt3lmo	Arabic	2018-10-20	5	AL00006
	<input type="checkbox"/>				SO00015	Bayen 7abeet	Arabic	2018-10-30	5	AL00006
	<input type="checkbox"/>				SO00016	3ysh bsho2k	Arabic	2018-07-15	4	AL00007
	<input type="checkbox"/>				SO00017	Naseny leeh	Arabic	2018-07-22	5	AL00007
	<input type="checkbox"/>				SO00018	Skrty	RAP	2021-02-20	4	AL00008
	<input type="checkbox"/>				SO00019	8alaba	RAP	2020-03-15	3	AL00009
	<input type="checkbox"/>				SO00020	Barat	RAP	2020-03-15	4	AL00009
	<input type="checkbox"/>				SO00021	2002	English	2018-04-17	3	AL00010
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	<input type="checkbox"/>				SO00024	Happier than ever	English	2021-07-20	4	AL00011
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	<input type="checkbox"/>				SOID	SOname	SOtype	DOR	SOduration	ALID
	<input type="checkbox"/>				SO00026	James dean	Arabic indie	2022-09-23	4	AL00012
	<input type="checkbox"/>				SO00027	Bsr7 w atoh	Arabic indie	2022-09-30	4	AL00012
	<input type="checkbox"/>				SO00028	Samurai	Arabic indie	2022-09-23	4	AL00012
	<input type="checkbox"/>				SO00029	Laila	Arabic indie	2017-07-12	4	AL00013
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	<input type="checkbox"/>				SO00033	Demons	Rock	2013-01-01	4	AL00015
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	<input type="checkbox"/>				SO00036	I wanna be yours	Rock	2013-09-20	4	AL00017
	<input type="checkbox"/>				SO00037	Do i wanna know?	Rock	2013-09-20	3	AL00017
	<input type="checkbox"/>				SO00038	Stressed out	Rock	2015-05-04	4	AL00018
	<input type="checkbox"/>				SO00039	Hometown	Rock	2015-05-04	5	AL00018

Multivalued attributes:

Acc_Phone

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BAND_MEMBERS

BID	BMID	BMfname	BMiname	BMjob
B00001	BM00001	Amir	Eid	Singer
B00001	BM00002	Sherif	El Hawary	Electric guitar
B00001	BM00003	Tamer	Hashem	Drums
B00001	BM00004	Sherif	Mostafa	Keyboard
B00001	BM00005	Adam	El Alfy	Bass guitar
B00002	BM00006	Dan	Reynolds	Singer
B00002	BM00007	Wayne	Sermon	Electric guitar
B00002	BM00008	Ben	McKee	Bass guitar
B00002	BM00009	Daniel	Platzman	Drums
B00003	BM00010	Ahmed	Bahaa	Singer
B00003	BM00011	Mohamed	El Arkan	Bass guitar
B00003	BM00012	Mostafa	El Kardany	Drums
B00004	BM00013	Alex	Turner	Singer
B00004	BM00014	Jamie	Cook	Keyboard
B00004	BM00015	Matt	Helders	drums
B00004	BM00016	Nick	OMalley	Bass guitar
B00005	BM00017	Tyler	Joseph	Singer
B00005	BM00018	Josh	Dun	Drums

Many to many relations:

USERS_WATCHES_LIVES

	← T →	UID	LID
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USERS_LISTENS_PODCASTS

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USERS_LIKES_SONGS

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USERS_DOWNLOADS_SONGS

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U00009	SO00036			
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U00010	SO00039			

USERS_FOLLOW_ARTISTS

	<input type="button" value="← T →"/>	<input type="button" value="T"/>	UID	ARID		<input type="button" value="← T →"/>	<input type="button" value="T"/>	UID	ARID
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	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00003 AR00001		<input type="checkbox"/>		<input type="button" value="Copy"/>
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	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00008 AR00003		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00009 AR00003		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00011 AR00003		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00017 AR00003		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00021 AR00003		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00001 AR00004		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00002 AR00004		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00008 AR00004		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00009 AR00004		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00012 AR00004		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00018 AR00004		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00008 AR00009		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00009 AR00009		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00016 AR00009		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00020 AR00009		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00001 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00002 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00003 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00005 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00008 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00009 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00017 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>
	<input type="checkbox"/>		<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	U00020 AR00010		<input type="checkbox"/>		<input type="button" value="Copy"/>

USERS_FOLLOW_BANDS

	<input type="button" value="← T →"/>	<input type="button" value="▼"/>	UID	BID	
<input type="checkbox"/>				U00001 B00001	
<input type="checkbox"/>				U00002 B00001	
<input type="checkbox"/>				U00003 B00001	
<input type="checkbox"/>				U00004 B00001	
<input type="checkbox"/>				U00008 B00001	
<input type="checkbox"/>				U00009 B00001	
<input type="checkbox"/>				U00010 B00001	
<input type="checkbox"/>				U00013 B00001	
<input type="checkbox"/>				U00018 B00001	
<input type="checkbox"/>				U00020 B00001	
<input type="checkbox"/>				U00001 B00002	
<input type="checkbox"/>				U00002 B00002	
<input type="checkbox"/>				U00003 B00002	
<input type="checkbox"/>				U00005 B00002	
<input type="checkbox"/>				U00008 B00002	
<input type="checkbox"/>				U00009 B00002	
<input type="checkbox"/>				U00010 B00002	
<input type="checkbox"/>				U00014 B00002	
<input type="checkbox"/>				U00015 B00002	
<input type="checkbox"/>				U00018 B00002	
<input type="checkbox"/>				U00021 B00002	
<input type="checkbox"/>				U00001 B00003	
<input type="checkbox"/>				U00003 B00003	
<input type="checkbox"/>				U00005 B00003	
<input type="checkbox"/>				U00008 B00003	
<input type="checkbox"/>				U00017 B00005	
<input type="checkbox"/>				U00020 B00005	
<input type="checkbox"/>				U00022 B00005	
	<input type="button" value="← T →"/>	<input type="button" value="▼"/>	UID	BID	
	<input type="checkbox"/>				U00009 B00003
	<input type="checkbox"/>				U00011 B00003
	<input type="checkbox"/>				U00015 B00003
	<input type="checkbox"/>				U00019 B00003
	<input type="checkbox"/>				U00021 B00003
	<input type="checkbox"/>				U00022 B00003
	<input type="checkbox"/>				U00001 B00004
	<input type="checkbox"/>				U00002 B00004
	<input type="checkbox"/>				U00003 B00004
	<input type="checkbox"/>				U00005 B00004
	<input type="checkbox"/>				U00008 B00004
	<input type="checkbox"/>				U00009 B00004
	<input type="checkbox"/>				U00012 B00004
	<input type="checkbox"/>				U00016 B00004
	<input type="checkbox"/>				U00017 B00004
	<input type="checkbox"/>				U00020 B00004
	<input type="checkbox"/>				U00022 B00004
	<input type="checkbox"/>				U00001 B00005
	<input type="checkbox"/>				U00002 B00005
	<input type="checkbox"/>				U00003 B00005
	<input type="checkbox"/>				U00004 B00005
	<input type="checkbox"/>				U00006 B00005
	<input type="checkbox"/>				U00008 B00005
	<input type="checkbox"/>				U00017 B00005
	<input type="checkbox"/>				U00020 B00005
	<input type="checkbox"/>				U00022 B00005

PLAYLISTS_CONTAINS_SONGS

	<input type="button" value="← T →"/>	PID	SOID		<input type="button" value="← T →"/>	PID	SOID					
<input type="checkbox"/>		Edit			P00002	SO00001	<input type="checkbox"/>				P00012	SO00013
<input type="checkbox"/>		Edit			P00007	SO00001	<input type="checkbox"/>				P00006	SO00014
<input type="checkbox"/>		Edit			P00002	SO00002	<input type="checkbox"/>				P00013	SO00014
<input type="checkbox"/>		Edit			P00007	SO00002	<input type="checkbox"/>				P00006	SO00015
<input type="checkbox"/>		Edit			P00002	SO00003	<input type="checkbox"/>				P00013	SO00015
<input type="checkbox"/>		Edit			P00007	SO00003	<input type="checkbox"/>				P00006	SO00016
<input type="checkbox"/>		Edit			P00002	SO00004	<input type="checkbox"/>				P00013	SO00016
<input type="checkbox"/>		Edit			P00008	SO00004	<input type="checkbox"/>				P00006	SO00017
<input type="checkbox"/>		Edit			P00002	SO00005	<input type="checkbox"/>				P00013	SO00017
<input type="checkbox"/>		Edit			P00008	SO00005	<input type="checkbox"/>				P00002	SO00018
<input type="checkbox"/>		Edit			P00002	SO00006	<input type="checkbox"/>				P00014	SO00018
<input type="checkbox"/>		Edit			P00009	SO00006	<input type="checkbox"/>				P00002	SO00019
<input type="checkbox"/>		Edit			P00002	SO00007	<input type="checkbox"/>				P00014	SO00019
<input type="checkbox"/>		Edit			P00010	SO00007	<input type="checkbox"/>				P00002	SO00020
<input type="checkbox"/>		Edit			P00002	SO00008	<input type="checkbox"/>				P00015	SO00020
<input type="checkbox"/>		Edit			P00010	SO00008	<input type="checkbox"/>				P00003	SO00021
<input type="checkbox"/>		Edit			P00002	SO00009	<input type="checkbox"/>				P00004	SO00021
<input type="checkbox"/>		Edit			P00010	SO00009	<input type="checkbox"/>				P00015	SO00021
<input type="checkbox"/>		Edit			P00002	SO00010	<input type="checkbox"/>				P00003	SO00022
<input type="checkbox"/>		Edit			P00011	SO00010	<input type="checkbox"/>				P00015	SO00022
<input type="checkbox"/>		Edit			P00002	SO00011	<input type="checkbox"/>				P00003	SO00023
<input type="checkbox"/>		Edit			P00012	SO00011	<input type="checkbox"/>				P00016	SO00023
<input type="checkbox"/>		Edit			P00002	SO00012	<input type="checkbox"/>				P00003	SO00024
<input type="checkbox"/>		Edit			P00012	SO00012	<input type="checkbox"/>				P00017	SO00024
<input type="checkbox"/>		Edit			P00002	SO00013	<input type="checkbox"/>				P00003	SO00025
	<input type="button" value="← T →"/>	PID	SOID		<input type="button" value="← T →"/>	PID	SOID					
<input type="checkbox"/>		Edit			P00018	SO00025	<input type="checkbox"/>				P00005	SO00036
<input type="checkbox"/>		Edit			P00001	SO00026	<input type="checkbox"/>				P00024	SO00036
<input type="checkbox"/>		Edit			P00004	SO00026	<input type="checkbox"/>				P00005	SO00037
<input type="checkbox"/>		Edit			P00019	SO00026	<input type="checkbox"/>				P00024	SO00037
<input type="checkbox"/>		Edit			P00001	SO00027	<input type="checkbox"/>				P00005	SO00038
<input type="checkbox"/>		Edit			P00004	SO00027	<input type="checkbox"/>				P00024	SO00038
<input type="checkbox"/>		Edit			P00020	SO00027	<input type="checkbox"/>				P00005	SO00039
<input type="checkbox"/>		Edit			P00001	SO00028	<input type="checkbox"/>				P00024	SO00039
<input type="checkbox"/>		Edit			P00004	SO00029	<input type="checkbox"/>				P00005	SO00039
<input type="checkbox"/>		Edit			P00020	SO00029	<input type="checkbox"/>				P00005	SO00039
<input type="checkbox"/>		Edit			P00021	SO00029	<input type="checkbox"/>				P00022	SO00030
<input type="checkbox"/>		Edit			P00022	SO00030	<input type="checkbox"/>				P00005	SO00031
<input type="checkbox"/>		Edit			P00022	SO00031	<input type="checkbox"/>				P00005	SO00032
<input type="checkbox"/>		Edit			P00005	SO00032	<input type="checkbox"/>				P00005	SO00033
<input type="checkbox"/>		Edit			P00022	SO00032	<input type="checkbox"/>				P00006	SO00034
<input type="checkbox"/>		Edit			P00023	SO00034	<input type="checkbox"/>				P00006	SO00035
<input type="checkbox"/>		Edit			P00006	SO00035	<input type="checkbox"/>				P00024	SO00035