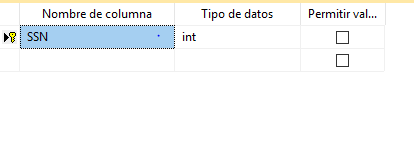
Adolfo Jimenez Prieto.

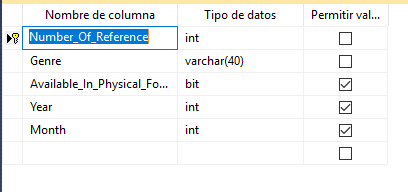
Victor de Vierna Valcarce.

Gonzalo Molpeceres Barrientos.

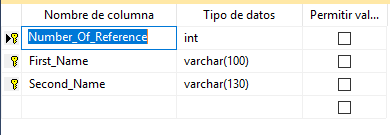
# ADMINS:



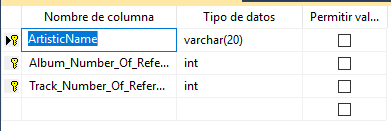
# ALBUM:



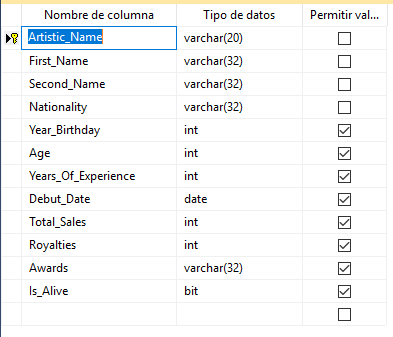
# ALBUM\_AUTHORS:



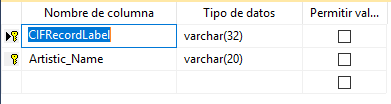
# ALBUM\_TRACK\_ART:



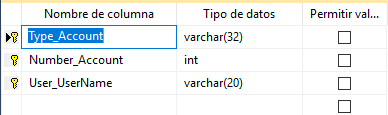
# ARTIST:



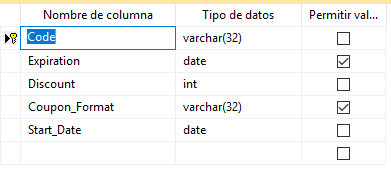
# ART\_REC:



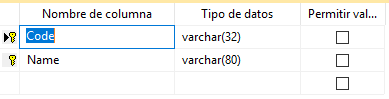
# BILLING\_INFORMATION:



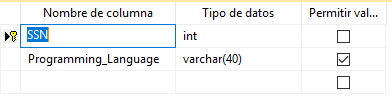
# COUPONS:



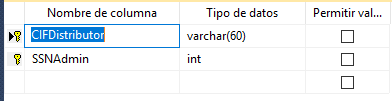
# COUPONS\_NAME:



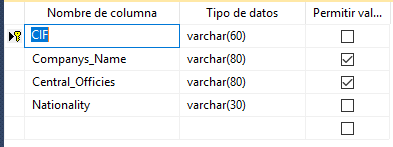
# DEVELOPERS:



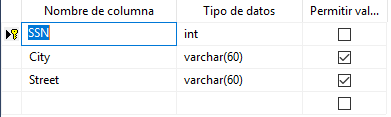
# DISTRADMIN:



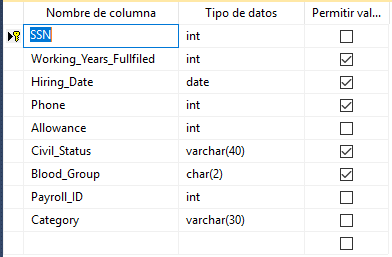
# DISTRIBUTOR:



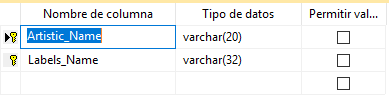
# EMPADRESS:



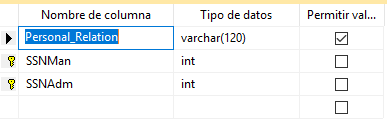
# EMPLOYEES:



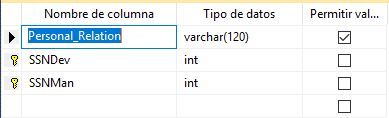
# LABELS\_WORKED\_WITH:



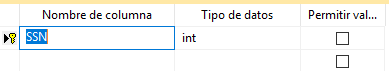
# MANAGADMIN:



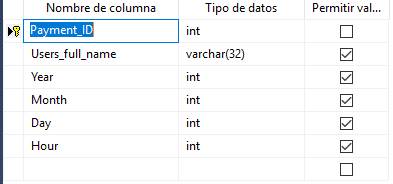
# MANAGDEV:



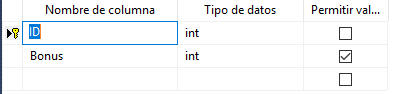
# MANAGERS:



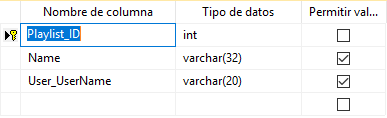
# PAYMENT:



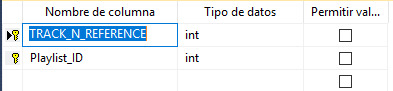
# PAYROLL:



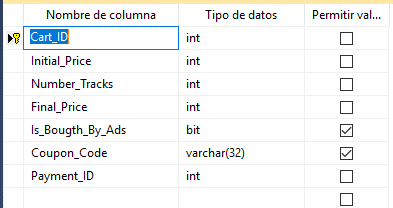
# PLAYLIST:



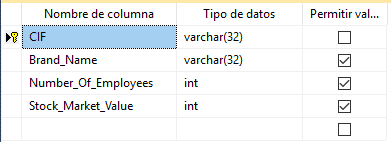
# PLAYTRACK:



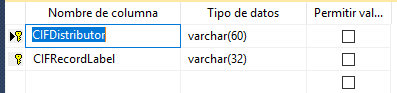
# PURCHASE\_TRACKS:



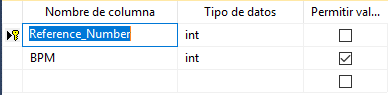
# RECORD\_LABEL:



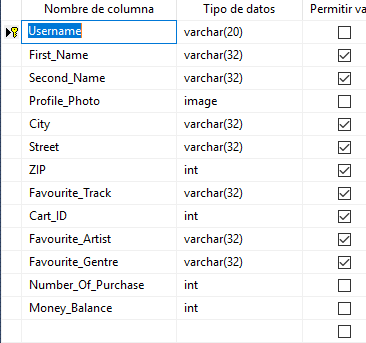
# RECORDDISTR:



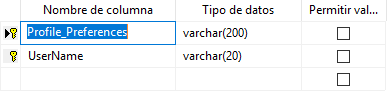
# TRACKS:



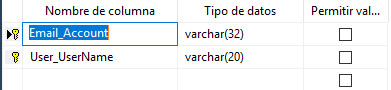
# USER:



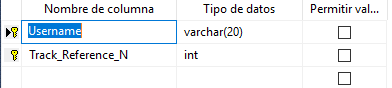
# USER\_AUDIO\_PREFERENCES:



# USER\_EMAIL:



# USER\_TRACK:



DATA TYPES

# ADMINS

|  |  |  |
| --- | --- | --- |
| SSN | int | NULL |

# ALBUM

|  |  |  |
| --- | --- | --- |
| Number\_Of\_Reference  Genre  Available\_In\_Physical\_Form  Year  Month | int  varchar(40)  bit  int  int | NULL  NULL  NOT NULL  NOT NULL  NOT NULL |

# ALBUM\_AUTHORS

|  |  |  |
| --- | --- | --- |
| Number\_Of\_Reference  First\_Name  Second\_Name | int  varchar(100)  varchar(130) | NULL  NULL  NULL |

# ALBUMTRACKART

|  |  |  |
| --- | --- | --- |
| ArtisticName  Album\_Number\_Of\_Reference  Track\_Number\_Of\_Reference | varchar(20)  int  int | NULL  NULL  NULL |

# ARTIST

|  |  |  |
| --- | --- | --- |
| Artistic\_Name  First\_Name  Second\_Name  Nationality  Year\_Birthday  Age  Years\_Of\_Experience  Debut\_Date  Total\_Sales  Royalties  Awards  Is\_Alive | varchar(20)  varchar(32)  varchar(32)  varchar(32)  int  int  int  date  int  int  varchar(32)  bit | NULL  NULL  NULL  NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL |

# ArtRec

|  |  |  |
| --- | --- | --- |
| CIFRecordLabel  Artistic\_Name | varchar(32)  varchar(20) | NULL  NULL |

# BILLING\_INFORMATION

|  |  |  |
| --- | --- | --- |
| Type\_Account  Number\_Account  User\_UserName | varchar(32)  int  varchar(20) | NULL  NULL  NULL |

# COUPONS

|  |  |  |
| --- | --- | --- |
| Code  Expiration  Discount  Coupon\_Format  Start\_Date | varchar(32)  date  int  varchar(32)  date | NULL  NOT NULL  NULL  NOT NULL  NULL |

# COUPONSNAME

|  |  |  |
| --- | --- | --- |
| Code  Name | varchar(32)  varchar(80) | NULL  NULL |

# DEVELOPERS

|  |  |  |
| --- | --- | --- |
| SSN  Programming\_Language | int  varchar(40) | NULL  NOT NULL |

# DistrAdmin

|  |  |  |
| --- | --- | --- |
| CIFDistributor  SSNAdmin | varchar(60)  int | NULL  NULL |

# DISTRIBUTOR

|  |  |  |
| --- | --- | --- |
| CIF  Companys\_Name  Central\_Officies  Nationality | varchar(60)  varchar(80)  varchar(80)  varchar(30) | NULL  NOT NULL  NOT NULL  NULL |

# EMPADRESS

|  |  |  |
| --- | --- | --- |
| SSN  City  Street | int  varchar(60)  varchar(60) | NULL  NOT NULL  NOT NULL |

# EMPLOYEES

|  |  |  |
| --- | --- | --- |
| SSN  Working\_Years\_Fullfiled  Hiring\_Date  Phone  Allowance  Civil\_Status  Blood\_Group  Payroll\_ID  Category | int  int  date  int  int  varchar(40)  char(2)  int  varchar(30) | NULL  NOT NULL  NOT NULL  NOT NULL  NULL  NOT NULL  NOT NULL  NULL  NULL |

# LABELS\_WORKED\_WITH

|  |  |  |
| --- | --- | --- |
| Artistic\_Name  Labels\_Name | varchar(20)  varchar(32) | NULL  NULL |

# MANAGADMIN

|  |  |  |
| --- | --- | --- |
| Personal\_Relation  SSNMan  SSNAdm | varchar(120)  int  int | NOT NULL  NULL  NULL |

# MANAGDEV

|  |  |  |
| --- | --- | --- |
| Personal\_Relation  SSNDev  SSNMan | varchar(120)  int  int | NOT NULL  NULL  NULL |

# MANAGERS

|  |  |  |
| --- | --- | --- |
| SSN | int | NULL |

# PAYMENT

|  |  |  |
| --- | --- | --- |
| Payment\_ID  Users\_full\_name  Year  Month  Day  Hour | int  varchar(32)  int  int  int  int | NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL |

# PAYROLL

|  |  |  |
| --- | --- | --- |
| ID  Bonus | int  int | NULL  NOT NULL |

# PLAYLIST

|  |  |  |
| --- | --- | --- |
| Playlist\_ID  Name  User\_UserName | int  varchar(32)  varchar(20) | NULL  NOT NULL  NOT NULL |

# PLAYTRACK

|  |  |  |
| --- | --- | --- |
| TRACK\_N\_REFERENCE  Playlist\_ID | int  int | NULL  NULL |

# PURCHASE\_TRACKS

|  |  |  |
| --- | --- | --- |
| Cart\_ID  Initial\_Price  Number\_Tracks  Final\_Price  Is\_Bougth\_By\_Ads  Coupon\_Code  Payment\_ID | int  int  int  int  bit  varchar(32)  int | NULL  NULL  NULL  NULL  NOT NULL  NOT NULL  NULL |

# RECORD\_LABEL

|  |  |  |
| --- | --- | --- |
| CIF  Brand\_Name  Number\_Of\_Employees  Stock\_Market\_Value | varchar(32)  varchar(32)  int  int | NULL  NOT NULL  NOT NULL  NOT NULL |

# RecordDistr

|  |  |  |
| --- | --- | --- |
| CIFDistributor  CIFRecordLabel | varchar(60)  varchar(32) | NULL  NULL |

# TRACKS

|  |  |  |
| --- | --- | --- |
| Reference\_Number  BPM | int  int | NULL  NOT NULL |

# USER

|  |  |  |
| --- | --- | --- |
| Username  First\_Name  Second\_Name  Profile\_Photo  City  Street  ZIP  Favourite\_Track  Cart\_ID  Favourite\_Artist  Favourite\_Gentre  Number\_Of\_Purchase  Money\_Balance | varchar(20)  varchar(32)  varchar(32)  image  varchar(32)  varchar(32)  int  varchar(32)  int  varchar(32)  varchar(32)  int  int | NULL  NOT NULL  NOT NULL  NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NOT NULL  NULL  NULL |

# USER\_AUDIO\_PREFERENCES

|  |  |  |
| --- | --- | --- |
| Profile\_Preferences  UserName | varchar(200)  varchar(20) | NULL  NULL |

# USER\_EMAIL

|  |  |  |
| --- | --- | --- |
| Email\_Account  User\_UserName | varchar(32)  varchar(20) | NULL  NULL |

# USER\_TRACK

|  |  |  |
| --- | --- | --- |
| Username  Track\_Reference\_N | varchar(20)  int | NULL  NULL  NULL |

DEFAULT

# ARTISTS:

Age INT DEFAULT 18

Years\_Of\_Experience INT DEFAULT 0

Total\_Sales INT DEFAULT 0

Royalties INT DEFAULT 0

Is\_Alive BIT DEFAULT 'SI'

# RECORD\_LABEL:

Number\_Of\_Employees INT DEFAULT 0

# PAYROLL:

Bonus INT DEFAULT 0

# EMPLOYEES:

Working\_Years\_Fullfiled INT DEFAULT 0

Civil\_Status VARCHAR(40) DEFAULT 'SINGLE'

# ALBUM:

Available\_In\_Physical\_Format BIT DEFAULT 'NO'

CHECK CONSTRAINS

# Artists:

CK\_ARTIST\_YEARSOFEXPAG CHECK(Age >= 0)

CK\_ARTIST\_YEARSOFEXPY CHECK(Years\_Of\_Experience >= 0)

CHECK\_ARTISTSALES CHECK(Total\_Sales >= 0)

CHECK\_ARTISTROYAL CHECK(Royalties >= 0)

CK\_ARTIST\_YEARSOFEXPA CHECK(Awards >= 0)

CK\_ARTIST\_ISALIVE CHECK(Is\_Alive LIKE '[SI, NO]')

# COUPONS:

CHECK\_COUPONSC CHECK(Code LIKE '[0-9][0-9][0-9][0-9][0-9]

[a-z,A-Z]')

# PURCHASE\_TRACKS:

CHECK\_PURCHASE\_TRACKSI CHECK(Initial\_Price >= 0)

CHECK\_PURCHASE\_TRACKSN CHECK(Number\_Tracks >= 0)

CHECK\_PURCHASE\_TRACKSF CHECK(Final\_Price >= 0)

# Users:

CHECK\_USERNUM CHECK(Number\_Of\_Purchase >= 0)

# RECORD LABEL:

C\_RECORD\_LABELN CHECK(Number\_Of\_Employees >= 0)

# TRACKS:

CK\_TRACKSBPM CHECK(BPM>=0)

CK\_Year CHECK("Year" >= 0)

CK\_Month CHECK("Month" >= 0)

# ALBUM:

CK\_AvailablePhysical CHECK(Available\_In\_Physical\_Format

LIKE '[SI, NO]')