Data Storage and Structure

Chinook Music Store Entity Relationship Diagram invoice employee customer invoice_id employee_id customer_id last_name first_name customer_id first_name last_name invoice_date title billing_address company billing_city reports_to address birthdate billing_state city hire_date billing_country state address billing_postal_code country postal_code city total state phone invoice_line country fax invoice_line_id postal_code email invoice_id phone support_rep_id track_id fax unit_price email quantity playlist playlist_track track media_type playlist_id playlist_id track_id media_type_id name track_id name name album_id media_type_id artist album genre genre_id artist_id genre_id album_id composer name title name milliseconds artist_id bytes

The first draft of a data dictionary:

It's a snowflake schema because there are several dimensions and sub-dimensions generated from the other tables.

unit_price

Fact Table: invoice, invoice line and track

Dimension: customer, employee, media_type, playlist_track, playlist, artist, album, genre **Fact Table**

Table	Column	Data Types	Description
			a unique identifier for
invoice	invoice_id	integer (32)	invoice
			a unique identifier for
	customer_id	integer (32)	customer
		timestamp without time zone	the date and time when
	Invoice_date	(6)	the invoice is made
			a unique identifier bill for
	billing_address	character varying(50)	address
			a unique identifier bill for
	billing_city	character varying(50)	city
			a unique identifier bill for
	billing_state	character varying(50)	state
			a unique identifier bill for
	billing_counry	character varying(50)	country
			a unique identifier bill for
	billing_postal_code	character varying(20)	address
			amount paid by the
	total	float (32)	customer
			a unique identifier for
Invoice_line	Invoice_line _id	integer (32)	invoice line
			a unique identifier for
	invoice_id	integer (32)	invoice
			a unique identifier for
	track_id	integer (32)	track
			a unique identifier for
	unit_price	float(32)	price
			a unique amount of
	quantity	integer (32)	product
			a unique identifier for
track	track_id	integer (32)	track
	name	character varying(50)	first name of album
			a unique identifier for
	album_id	integer (32)	album
			a unique identifier type
	media_type_id	integer (32)	for media
			a unique identifier for
	genre_id	integer (32)	genre
	composer	character varying(50)	a name of composer
			A time in milliseconds for
	milliseconds	integer (32)	track
	bytes	integer (32)	A unit for each track
	unit_price	float (32)	A unit price for each track

Dimension Table

Table	Column	Data Types	Description
customer	customer_id	integer(32)	a unique identifier for actor
	first_name	character varying(45)	first name of the actor
	last_name	character varying(45)	last name of the actor
	company	character varying(45)	Name for the company
	address	character varying(45)	Address of customer
	city	character varying(45)	Name of the city
	state	character varying(45)	the postal code of an address
	country	character varying(45)	Name of the country
	postal_code	smallint(16)	the postal code of an address
	phone	smallint(16)	the phone number for the address
	fax	smallint(16)	the fax for the address
	email	character varying(45)	the email for the address
		(22)	a unique identifier for support
	support_rep_id	integer(32)	the date and time when the last
employee	employee_id	integer(32)	update is made
	last_name	character varying(45)	a unique identifier for address
	_		the first line of an
	first_name	character varying(50)	address
	title	character varying(50)	an optional second line of an address
	report_to	character varying(20)	n/a
			The birthdate of
	birthdate	smallint(16)	employee
	address	character varying(45)	Address of employee
	city	character varying(45)	Name of the city
	state	character varying(10)	the postal code of an address
	country	character varying(20)	Name of the country
	postal_code	smallint(16)	the postal code of an address
	phone	timestamp without time zone(6)	the phone number for the address
	fax		the fax for the address
		smallint(16)	
modia tura	email modia type id	character varying(20)	the email for the address
media_type	media_type_id	integer(32) character varying(25)	a unique identifier type for media
<u> </u>	name	character varying(25)	name of media type

			a unique identifier for
genre	genre_id	integer(32)	genre
	name	character varying(50)	name of genre
playlist_track	playlist_track_id		a unique identifier for
		integer(32)	playlist_track
			a unique identifier
	track_id	character varying(50)	for playlist_track
album	album_id	integer(32)	a unique identifier for album
	title	character varying(20)	Name of the album
	artist_id	integer(32)	a unique identifier for artist
playlist	playlist_id	integer(32)	a unique identifier for playlist
		character	the name of the
	name	varying(255)	playlist
artist	artist _id	integer(32)	a unique identifier for artist
		character	
	name	varying(255)	The name of the artist