--I have imported flatfiles so below tables can appear for this project on the database

select \* from dbo.album

select \* from dbo.album2

select \* from dbo.artist

select \* from dbo.customer

select \* from dbo.employee

select \* from dbo.genre

select \* from dbo.invoice

--limit float in invoice to 2 decimals

UPDATE dbo.invoice

SET total = ROUND(total, 2);

select \* from dbo.invoice\_line

--limit unit price to 2 decimals

UPDATE dbo.invoice\_line

SET unit\_price = ROUND(unit\_price, 2)

select \* from dbo.media\_type

select \* from dbo.playlist

select \* from dbo.playlist\_track

select \* from dbo.track

--convert unit price to 2 decimals

UPDATE dbo.track

SET unit\_price = ROUND(unit\_price, 2)

---Table link ups and connections

--Below we are altering and connecting tables according to the schema

--epoloyee\_id made primary key

Alter Table employee

ADD CONSTRAINT ep\_emplid PRIMARY KEY (employee\_id);

select \* from employee

--customer(support\_rep\_id) is Foreign key dependent on employee(employee\_id)

select \* from customer

ALTER TABLE customer

ADD CONSTRAINT sp\_repid

FOREIGN KEY (support\_rep\_id) REFERENCES employee(employee\_id);

--Creating customer\_id as primary key in customer table

Alter table Customer

ADD CONSTRAINT cu\_iddd PRIMARY KEY (customer\_id);

--customer(customer\_id) is FK in invoice(customer\_id)

Select \* from customer

Select \* from invoice

Alter Table invoice

Add constraint cu\_id

Foreign Key (customer\_id) References customer(customer\_id);

--creating invoice\_id as primary key

Select \* from invoice

Alter Table invoice

Add Constraint inv\_id Primary Key (invoice\_id);

--creating invoice(invoice\_id) FK invoice\_line(invoice\_id)

Alter table invoice\_line

Add Constraint inv\_idf

Foreign Key (invoice\_id) References invoice(invoice\_id);

--creating invoice\_line\_id as primary key in invoice\_line

Select \* from invoice\_line

Alter Table invoice\_line

Add Constraint inv\_linid Primary Key (invoice\_line\_id);

--creating media\_type\_id as primary key in media\_type

select \* from media\_type

Alter Table media\_type

Add Constraint media\_id Primary Key (media\_type\_id);

---creating genre\_id as primary key in genre table

Alter Table genre

Add Constraint gen\_id Primary Key (genre\_id);

---creating track\_id as primary key in track table

Alter Table track

Add Constraint tk\_id Primary Key (track\_id);

--creating album\_id as primary key in album table

Alter Table album

Add Constraint alb\_id Primary Key (album\_id);

--creating track(track\_id) FK invoice\_line(track\_id)

Alter table invoice\_line

Add Constraint trk\_idf

Foreign Key (track\_id) References track(track\_id);

-- creating FK album\_id,media\_type\_id,genre\_id in track table wrt respective tables

Alter table track

Add Constraint albm\_idf Foreign Key (album\_id) References album(album\_id);

Alter table track

Add Constraint med\_idf Foreign Key (media\_type\_id) References media\_type(media\_type\_id);

Alter table track

Add Constraint gen\_idf Foreign Key (genre\_id) References genre(genre\_id);

Alter table track

Add Constraint gen\_idf Foreign Key (genre\_id) References genre(genre\_id);

-- here it showed error as genre\_id is tinyint in genre and int in track

-- ichecked the same from below

SELECT COLUMN\_NAME, DATA\_TYPE

FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_NAME = 'genre';

SELECT COLUMN\_NAME, DATA\_TYPE

FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_NAME = 'track';

alter table track

alter column genre\_id tinyint;

-- now we have modified the genre\_id fk properly after changing the it from int to tinyint

Alter table track

Add Constraint gen\_idf Foreign Key (genre\_id) References genre(genre\_id);

--changing artist\_id to primary key in table artist

Alter Table artist

Add Constraint art\_id Primary Key (artist\_id);

--creating album(artist\_id) FK artist(artist\_id)

Alter table album

Add Constraint arti\_idf

Foreign Key (artist\_id) References artist(artist\_id);

--changing playlist\_id to primary key in table playlist

Alter Table playlist

Add Constraint play\_id Primary Key (playlist\_id);