#### **CODE:**

```
CREATE TABLE customer
customer id INT,
name VARCHAR2(30) NOT NULL,
phone no INT NOT NULL,
pin INT,
city VARCHAR2(20),
state VARCHAR2(20),
PRIMARY KEY (customer_id)
);
ALTER TABLE customer
MODIFY phone_no INT NOT NULL check(length(phone_no)=10);
CREATE TABLE album
album_id INT,
title VARCHAR2(20) NOT NULL,
price INT DEFAULT 0,
release_date DATE NOT NULL,
PRIMARY KEY (album_id)
);
CREATE TABLE song
song_id INT,
playtime INT NOT NULL,
song_title VARCHAR2(20),
a id INT,
FOREIGN KEY (a_id) REFERENCES album (album_id),
PRIMARY KEY (song_id)
);
CREATE TABLE artist
artist_id INT,
name VARCHAR2(30) NOT NULL,
nationality VARCHAR2(20),
debut_date DATE,
PRIMARY KEY (artist_id)
);
CREATE TABLE band
band_name VARCHAR2(30) NOT NULL,
```

```
active_since DATE,
number_of_members INT DEFAULT 1 CHECK (number_of_members>=2) ,
FOREIGN KEY (aa id) REFERENCES artist (artist id),
PRIMARY KEY (band_name,aa_id)
);
CREATE TABLE purchase
c_id INT PRIMARY KEY,
purchase DATE,
product INT,
FOREIGN KEY (c_id) REFERENCES customer (customer_id),
FOREIGN KEY (product) REFERENCES album (album_id)
);
CREATE TABLE genre
s_id INT NOT NULL,
category VARCHAR2(20) NOT NULL,
FOREIGN KEY (s_id) REFERENCES song (song_id)
CREATE TABLE created_by
art_id INT NOT NULL,
so_id INT NOT NULL,
FOREIGN KEY (art id) REFERENCES artist (artist id),
FOREIGN KEY (so_id) REFERENCES song (song_id)
DESC customer
DESC album
DESC song
DESC artist
DESC band
DESC purchase
DESC genre
DESC created_by
```

# **OUTPUT:**

### **CUSTOMER:**

Results Exp	olain Describe	Saved SQL	History						
Object Type	TABLE Object	CUSTOMER							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	CUSTOMER ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	30	-	-	-	/	-	-
	PHONE NO	Number	-	-	0	-	-	-	-
	PIN	Number	-		0	-	/	-	-
	CITY	Varchar2	20	-	-	-	/	-	-
	STATE	Varchar2	20		-	-	/	-	-
								.1	L - 6

### ALBUM:

Results Explain Describe Saved SQL History

Table	ype TABLE Obje	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ALBUM	ALBUM ID	Number	-		0	1	-	-	-
	TITLE	Varchar2	20		-	1-1	-	-	-
	PRICE	Number	-	-	0	-	/	0	-
	RELEASE DATE	Date	7	-	-	-	-	-	-
								1	- 4

# SONG:

Results	Explain Des	scribe Saved	SQL His	tory					
Object T	ype TABLE	bject SONG							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SONG	SONG ID	Number	-	-	0	1	-	-	
	PLAYTIME	Number	-	-	0	-	-	-	-
	SONG TITLE	Varchar2	20	-	-	-	/		-
	A ID	Number	-	-	0	-	/	-	
								1	L - 4

### **ARTIST:**

bject Ty	pe TABLE Ob	ject ARTIST							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ARTIST	ARTIST_ID	Number	-	-	0	1	-	×	-
	NAME	Varchar2	30	-	-	-	-	-	-
	NATIONALITY	Varchar2	20	-	-	-	/	-	-
	DEBUT DATE	Date	7	-	-		/		

### BAND:

Results Explain Describe Saved SQL History

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BAND	BAND_NAME	Varchar2	30		-	1	-		-
	ACTIVE SINCE	Date	7	-	-	-	/	-	-
	NUMBER OF MEMBERS	Number	-	-	0	-	-	1	-
	AA ID	Number	-	-	0	2	-	-	

#### **PURCHASE:**

Results Ex	plain Descri	be Saved SQ	L History	1					
Object Type	<b>TABLE</b> Obje	ct PURCHA	SE						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PURCHASE	<u>C_ID</u>	Number	-	1-	0	1	-	-	-
	PURCHASE	Date	7	-	-	-	/	-	•
	PRODUCT	Number	-	-	0	-	/	-	-
								1	- 3

# **GENRE:**

Results	Explain Des	scribe Saved	SQL His	tory					
Object Ty	pe TABLE	Object GENR	E						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
GENRE	<u>S_ID</u>	Number	-	-	0	-	-	-	-
	CATEGORY	Varchar2	20	-	-	-	-	-	-
								1	2

### **CREATED BY:**

	Results Explain Describe Saved SQL History Object Type TABLE Object CREATED_BY										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment		
CREATED BY	ART_ID	Number	-	-	0	-	-	-	-		
	SO ID	Number		-	0	-	-	-	-		
								1	- 2		