

The tables Album and Band form a relational database set up for a second hand record shop.

Album

AlbumName	AlbumID	Band	Format	Price
Open Season	001	BSP	Vinyl	12.00
Tigermilk	002	B&S	Vinyl	35.50
Sea of Brass	003	BSP	CD	8.00
Good Arrows	004	TUN	CD	15.99
Sweden	005	TMG	Vinyl	21.99
Storytelling	006	B&S	CD	10.99
The Life Pursuit	007	B&S	Vinyl	12.00

Band

BandID	BandName	Genre
BSP	British Sea Power	Rock
B&S	Belle and Sebastian	Indie
TMG	The Mountain Goats	Indie
TUN	Tunng	Folk

01 Six database terms are given below. For each row in the table, choose the letter A – F which best matches the description. Letters should not be used more than once.

A Field

C Index

E Record

B Foreign key

D Primary key

F Relationship

Definition	Letter (A – F)
a row of data within a table	
uniquely identifies a row of data	
links between tables	

02 How many records are there in each table? How many fields? What are the data types being used? What are the primary keys? What are the foreign key(s)?

03 Explain how the tables are linked together?

04.1 The shop owner needs a list of all the vinyl albums in the store. The list needs to include the album name, the album ID and the format. Write an SQL query that could be used to find this information. The results do not need to be sorted.

04.2 A customer wants a list of all the albums which are available on CD format. The list needs to include the album name and price. Write an SQL query that could be used to find this information. The list should be sorted alphabetically by album name.

04.3 A customer has a budget of £20.00 and wants a list of all the albums they could buy. The list needs to include the album name, the format and the price. Write an SQL query that could be used to find this information. The list should be sorted by price with the most expensive album first.

04.4 A music journalist wants to know what bands of the "Indie" genre the store stocks albums by. The list needs to include the name of the band. Write an SQL query that could be used to find this information. The list should be sorted alphabetically by band name,

05.1 A customer is only interested in albums which cost less than £15.00. The shop manager needs to generate a list of all the albums the customer could afford. The list needs to include the name of the album, the name of the band and the price of the album.

Write an SQL query that could be used to find this information. The results should be sorted in price order from cheapest to most expensive.

05.2 A customer is only interested in vinyl albums. The shop manager needs to generate a list of all the albums the customer might want to buy. The list needs to include the name of the album, the name of the band and the price of the album.

Write an SQL query that could be used to find this information. The results should be sorted in price order from cheapest to most expensive.

05.3 A customer is only interested in CD albums. The shop manager needs to generate a list of all the albums the customer might want to buy. The list needs to include the name of the album, the name of the band and the genre.

Write an SQL query that could be used to find this information. The results should be sorted alphabetically by band name.

05.4 A customer is only interested in vinyl albums by bands from the "Indie" genre. They have a budget of £25.00 for their next purchase.

The shop manager needs to generate a list of all the albums the customer could afford. The list needs to include the name of the album, the name of the band and the price of the album.

Write an SQL query that could be used to find this information. The results should be sorted in alphabetical order by the name of the band.

06.1 The album "Tigermilk" has been sold.

Write an SQL query that could be used to remove the album "Tigermilk" from the **Album** table.

06.2 A price of the album "Sweden" by the band "The Mountain Goats" has been increased to 25.00. Write an SQL query that could be used to change the price for this album.

06.3 The band "British Sea Power" has changed its name to "Sea Power".

Write an SQL query that could be used to change the name of the band in the **Band** table. You do not need to change the BandID field.

06.4 A second version of the album "Sweden" by the band "The Mountain Goats" has been added the stock of the second hand record shop. This album is on "Vinyl" format and will cost 15.00 to buy. Write an SQL query that could be used to add this album to the database. You should use a suitable code for the AlbumID field.