

01 Define the database term **foreign key**.

[3 marks]

primary key in one table / that also appears in another table / used to link the tables together / to avoid redundant data

02 The tables Album and Band form a relational database set up for a second hand record shop. the owner can search the database to find albums suitable for a client.

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

02.1 How many records are there in the table **Band**?

[1 mark]

4

02.2 Explain why a data type of real number is most suitable for the field Price in the table Album.

[3 marks]

need to include decimals as prices include them / needs to be numeric / can do maths with it – e.g. work out total value of a shopping bag / no other suitable data type / only include numbers

02.3 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.

[3 marks]

UPDATE Album

SET Price = 25.00

WHERE AlbumID = 005; (accept AlbumName = "Sweden")

02.4 The following incomplete SQL query should find every album in the shop in the vinyl format. The WHERE clause is missing

```
SELECT Format  
FROM Album
```

Shade one lozenge to show the correct WHERE clause to complete the query.

[1 mark]

C WHERE Format = "Vinyl"

02.4 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.

[4 marks]

```
SELECT Album.AlbumName, Band.BandName, Band.Genre  
FROM Album, Band  
WHERE Album.Format = "CD" AND Album.Band = Band.BandID  
ORDER BY Band.BandName ASC;
```