01 Define the database term primary key.

[2 marks]

unique identifier [1] for a record [1] (accept row of table)

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 fields are there in the table **Album**?

[1 mark]

5

02.2 What is the best choice for a data type for the **Band** field in the table **Album**?

[1 mark]

String

02.3 What is the role of the Band field in the table Album?

[1 mark]

Foreign Key

02.3 A new copy of the album "Tigermilk" by the band "Bell and Sebastian" has been added to the shop. This version of the album is on CD and will cost 10.00 to buy.
Write an SQL query that could be used to add this album to the **Album** table.

[3 marks]

INSERT INTO Album

VALUES "Tigermilk", "008" [1 mark – any value not currently in table], "B&S", "CD", 10.00

1 mark for each line and one mark for the primary key value being unique (this would probably be implemented as an automatically increasing number by the way – an "autonumber")

- One mark off if quotes not used
- Can use INSERT INTO Album (AlbumNAME, AlbumID, Band, Format, Price)

02.4 The following incomplete SQL query should find the Price of every album by the band "British Sea Power". The WHERE clause is missing

```
SELECT BandName
FROM Band
```

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

[1 mark]

C – WHERE Band = "BSP"

02.4 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 most expensive to cheapest.

[5 marks]

SELECT Album.AlbumName, Band.BandName, Album.Price [1 mark]

FROM Album, Band [1 mark]

WHERE Album>Format = "Vinyl" AND Album.Band = Band.BandID [2 marks]

ORDER BY Album.Price DESC; [1 mark]