

Using FileMaker Pro, construct the following movie database. Read and follow the instructions carefully!

Step 1 - Define the fields

1. Create a blank Movie database with the following fields:

| Name of field | Type of field | Additional information |
|---------------|---------------|---|
| Title | Text | |
| Rating | Text | Value List containing: G, PG, PG-13, R, NC-17 (see below for help) |
| Starring | Text | <i>List the principal actors/actresses</i> |
| Subject | Text | Value list containing: Drama, Action, Comedy, Animated, Horror/Sci-Fi, Family (see below for help) |
| Length | Time | <i>Displayed as Hours:Minutes format i.e. 1:30</i> |
| Plot Summary | Text | <i>Must be correctly formatted and spell-checked.</i> |

Notice that two of the fields, Rating and Subject, should only contain **certain values**. To do that, you need to set up 2 **Value Lists**.

- a) In the **Define Fields** window, double click on the *Rating* field. You should see the **Entry Options** dialog box.
- b) Choose **Validation** from the menu.
- c) Check the **Member of value list** box and create a **Value List** called *Different Ratings* with the **custom values** of G, PG, PG-13, R and NC-17.
- d) Create a **Value List** called *Different Subjects* with the **custom values** of Drama, Action, Comedy, Animated, Horror-Sci-Fi and Family.

Step 2 - Create the records.

Using 10 of your own favorite films, create 10 records in the database. If you wish to add additional fields to this database, then you can - but you must have at least these six fields. **The plot summary must be properly formatted - unexpected returns will lose marks!**



Step 3 - Create the layouts

You are now going to create three new layouts, with these names: Title Screen, Help Screen and View Films

1. From the **Mode** menu, select **Layout**.
2. Create a **New Layout** called *Title Screen*. Make it a **Blank** layout.
3. Using different fonts, sizes, styles, colours, shapes and clip-art, create an attractive layout that welcomes the user to the movie database
4. Now create another 2 layouts, using the following information:

| Name of layout | Layout type | Purpose of the layout |
|----------------|-----------------|---|
| View Films | Standard | <p>This is the main layout used to view the records in the database. It should be attractive, colorful and well designed.</p> <p><i>You should not have to scroll up/down or left/right to see the whole record.</i></p> <p>Make sure that the <i>Rating</i> field can only be a value chosen from the <i>Different Ratings</i> value list and that the <i>Subject</i> field can only contain a value chosen from the <i>Different Subjects</i> value list.</p> |
| Help Screen | Blank | <p>This layout should contain a description of the different Film Ratings. It should be attractive, colorful and well designed.</p> <p><i>You should not have to scroll up/down or left/right to see all the information.</i></p> |



Step 4 - Add the buttons

Now add buttons to the three layouts you created in Step 2.

1. Create the following buttons on the *View Films* layout:

| Name of button | What the button should do |
|----------------|--------------------------------------|
| Next film | Go to the next record |
| Previous film | Go to the previous record |
| Title Screen | Go to the <i>Title Screen</i> layout |
| Ratings | Go to the <i>Help Screen</i> layout |

2. Create the following buttons on the *Title Screen* layout:

| Name of button | What the button should do |
|----------------|-------------------------------------|
| View films | Go to the <i>View Films</i> layout |
| Ratings | Go to the <i>Help Screen</i> layout |
| Quit | Quit FileMaker |

3. Create the following buttons on the *Help Screen* layout:

| Name of button | What the button should do |
|----------------|--------------------------------------|
| View films | Go to the <i>View Films</i> layout |
| Title Screen | Go to the <i>Title Screen</i> layout |

4. To make sure that the user always sees the Main Menu layout first when they load the database:

- (a) Select **Preferences** from the **Edit** menu, then choose **Document Preferences**
- (b) Check the box titled **Switch to layout**, and select the *Title Screen* layout.



Trainspotting

Step 5 - "Add Film" button

1. Find out how to add an additional button, **Add Film**, on to the *View Films* layout. This button, when clicked, should create a *new blank record* which can be filled in.
2. Create this button and test it to make sure it works.



Step 6 - "Find Film" button and script

1. Find out how to add an additional button, **Find Film**, on to the **Main Menu** layout. This button, when clicked, should allow the user to **search** for a specific film by typing in its name. To do this, you will need to write a **script**. The script will need to do the following (in this order):
 - (a) Go to the View Films layout.
 - (b) Display an alert message telling the user to type in the Film's name, then click on 'Find'.
 - (c) Enter Find Mode. No pause. No restore.
2. Create the button, which should execute the script you have just written.
3. Also create another button, **Show all Films**, which is used to show all of the records after a find operation. (**Find All**).

Step 7 - Extensions (for extra marks)

In previous years, students have further extended this movie database by (in order of difficulty):

- adding an **additional field** which contain a **picture** from the movie;
- creating an **additional layout** which lets the user click on a picture of the movie, which in turn takes you straight to the movie's record.
- adding an **additional field** which contains the **movie trailer** (video);
- creating a **more impressive Find Film script**, which only lets the user type in the film's name, and lets the user know if the film cannot be found (hard).

Extra marks will be awarded to students who attempt some of the above.

Step 8 - Finishing up...

Before you finish, take some time to check whether or not your database is complete. You should have:

- 3 layouts - *View Films*, *Title Screen* and *Help Screen*
- Each layout should be attractively designed.
- Each layout should contain several buttons, and *each button should work*.

Your teacher will mark your database on-screen.

Make sure you have given it a sensible filename and that it is not hidden within multiple folders.

If your teacher can't find the database, they can't mark it!!!

