

# Access Lesson 02 - Submission Tasks

## References

- Microsoft Training: Create a relationship  
<https://support.office.com/en-us/article/Create-a-relationship-40c998dd-4875-4da4-98c8-8ac8f109b85b>
- Microsoft Training: Create queries with more than one data source <https://support.office.com/en-us/article/Create-queries-with-more-than-one-data-source-440d7af0-08a3-4a15-a6b6-bb7650e08465?ui=en-US&rs=en-US&ad=US>
- TeachUComp Aggregate Functions in Access  
<http://www.teachucomp.com/aggregate-function-queries-in-access-tutorial/>

## Submission Process

Download **DAD\_task\_submission\_template.docx** from canvas.

Paste the required screen captures from the tasks below into this file.

Submit the (.docx) file into the appropriate weekly task on **Canvas**.

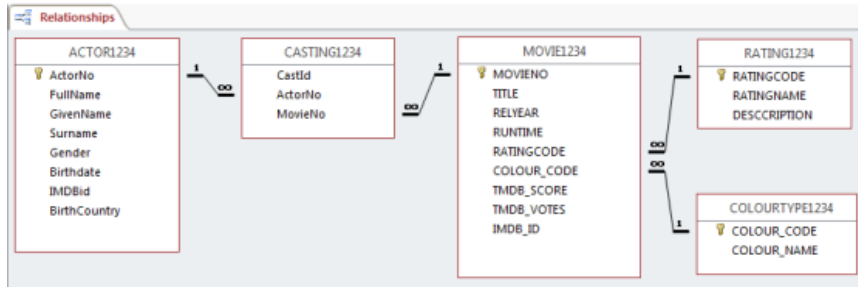
## Setup

- Download and unzip the file named Access\_Lesson\_2\_resources.zip from Canvas.
- Find the file named movie\_actors\_db.accdb
- Open the file using Microsoft Access.
- Before you start – rename all tables so that they now include a suffix with the last 4 digits of your student ID. e.g. Movie becomes Movie5678 (If your ID contains an "X" then ignore the 'X' and choose the last 4 digits of the id. 1234567x would be 4567). All your tables should now have a 4 digit suffix.

## Task 1.

Create Relationships for all of the tables in the database.

At the conclusion of this task, you should have a diagram similar to this:



Take a screen capture of the diagram.

NOTE: All table names in your diagram must contain the last 4 digits of your student ID.

Paste the screen capture in the appropriate position in the document

**DAD\_task\_submission\_template.docx**

## Task 2.

Create a Query that uses the Movie, Rating and ColourType tables

The query must display the movieno, title, ratingcode, rating description, colour\_name of all movies with a title beginning with the letter U.

The list must appear in Ascending movieNo sequence

Save the query as W2T2.

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position.

### Task 3.

Create a Query called W2T3

It must display the actor no, actor fullname, movieno, movie title and movie release year for actors whose fullname begins with "i".

The list must be in ascending release year sequence

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position.

### Task 4.

Create a Query called W2T4

It must display the actor no, actor fullname, movieno, movie title and movie release year for any movie that has a tmdb\_score of 8.1 or greater.

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position.

### Task 5.

Create a Query called W2T5. This Query requires Totals to be included.

The query must display the actor no, actor fullname and the count of CastId.

The list must be in Descending Count sequence.

Screen Capture the Query Grid Design and the first 13 rows that are displayed and paste into submission document

- Screen capture the Query Design Grid.
- Screen capture the first 13 rows that are displayed.
- Paste the screen captures in the appropriate position.

## Task 6.

Create a single Query called W2T6.

It must display the total number of Females and Males that appear in the Actor table. The output must look like this (the values may be different):

Gender	Total Count
F	74
M	189

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position.

## Task 7.

Create a single Query called W2T7.

It must display the number of actors that have been born in each country.

The output must look like this (the values may be different):

USA	189
England	69

- Screen capture the Query Design Grid.
- Screen capture the **first 5** rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position

## Task 8.

Modify the Access Actor table.

Create an Index on each of the following fields

- Fullname (duplicates allowed)
- Birthdate (duplicates allowed)

Screen Capture the Properties for each of these fields after the index has been created and paste into the appropriate position.

## Setup

Download the database named product\_sales.accdb from Canvas.

- This database contains sales of 80 products over a 5 year period. There are over 350,000 sales transactions.
- There are no details about individual customer who were involved in the sales. The database has only recorded the gender and birthdate of the people who purchased products.
- Each product belongs to a product type.
- Each sales transaction belongs to a location in Australia.

## Task 9

Using the Database Tools menu, create Relationships between the tables.

The foreign keys are:

- POSTCODE in the TRANS table
- PRODID in the TRANS table
- PRODTYPE in the PRODUCT table

Then:

- Take a screen capture of the diagram.
- Paste the screen captures in the appropriate position

## Task 10

Create a single query called W2T10 that:

- Displays these columns: TranID,ProdID,Prodname,TypeDescription,Qty,TranDate
- Is in ascending TransID sequence
- Only show records that meet all of these criteria
  - Qty greater than or equal to 8
  - TranDate = 01/01/2010

Then:

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position

## Task 11

Create a single query called W2T11 that:

- Displays these columns: TranDate, TranID, Prodname, SalePrice, Qty, Suburb, Gender
- Is in ascending TransDate sequence
- Only show records that meet all of these criteria
  - Prodname is "Silverplanet" or "Zummalax"
  - Suburb is Hawthorn

Then:

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position

## Task 12

Create a query called W2T12 that:

- Displays these columns: TranID, ProdID, SalePrice, CostPrice, Qty
- is in ascending TransID sequence.
- Only show records where the TransID value is less than 7000.

Also add these additional two columns:

- A column that has a calculation [selling price] – [cost price]
- Add the heading Margin to that column
- A column that has a calculation [Margin] \* [qty]
- Add the heading Total Amount to that column.

Then:

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position

## Task 13

Create a query called W2T13 that:

- Displays the sum of the qty sold for each week day.
- The list must be in Descending qty sequence

The headings of the columns must match this example (Your values may differ)

Week Day	Total Qty Sold
Thu	142413
Fri	142366
Sat	141961
Mon	141878
Tue	129834
Sun	118636
Wed	117122

Then:

- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position

## Task 14

Create a query called W2T14 that:

- Displays the count of the transid for each gender within each product type
- The list must be in Ascending Product Type/Genders sequence

The headings of the columns must match this example. (Your values may differ)

Product Type	Gender	No of Transactions
Fashion	Female	38168
Fashion	Male	32728
LifeStyle	Female	9420
LifeStyle	Male	8800
Pharmacy	Female	53504
Pharmacy	Male	34515

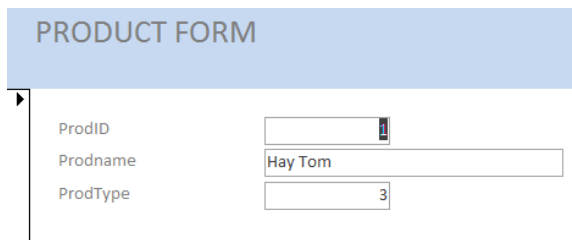
- Screen capture the Query Design Grid.
- Screen capture all of the rows that are displayed once this query is executed
- Paste the screen captures in the appropriate position

## Task 15

Select Create Form from the Access ribbon menu.

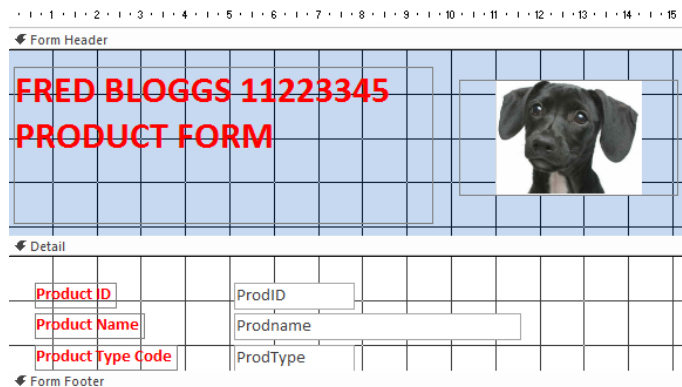
Access will automatically create a Columnar Form for the Product table using the Form Wizard.

It will look similar to this:



Modify the Form in the design view. Make these simple changes:

- Change the text in the Form Header so that it includes your name and student ID
- Use the Insert Image option from the Ribbon Menu to add a small image to the Form Header
- Change the prompts on the left side of the Detail Section to match the text in the example below (e.g. ProdId becomes Product Id).
- Make other minor alterations (such as colours, fonts, move text boxes etc.)



Screen Capture the Form Design View (the screen with gridlines) and paste into appropriate position.