Solutions

Chapter 19: Project: Building a relational First Fleet database

Defining fields, page 119

Table 19.2

Field	Field type	Validation
Unique ID	Serial number (integer)	Unique value
Family name	Text	Not empty
Given name	Text	Not empty
Age leaving England	Numerical (integer)	> 0 and < 150
Gender	Text	M or F
Year of death	Date	< 1908
Place of trial	Text	Dropdown list
Date of trial	Date	> 1779
Crime	Text	Not empty
Value of crime (shillings)	Numerical (integer)	> 0
Original sentence	Text	Not empty
Transported for (years)	Numerical (integer)	> 0
Occupation	Text	–
Ship name	Text	Dropdown list
Notes	Text	–

Table 19.3

Field	Field type	Validation
Ship name	Text	Dropdown list
Type	Text	Dropdown list
Tonnage	Number	> 0
Master's name	Text	Not empty
Number crew	Number	> 0
Number dying on voyage	Number	> = 0
Interesting facts	Text	–
Image of ship	Image	Not empty

Activity: Using your database for research, pages 121–2

Warm-up

1 30 May 1781. Some databases will not be able to convert a date expressed in string form to standard format. Students will need to search "178*" or similar.

2 John Hudson was the youngest at 13 years old. His crime was stealing.
Elizabeth Beckford was the oldest at 70 years old. Her crime was stealing cheese.

3 Mary Cooper and Jane Creek. Charwoman was a house cleaner ('char' = chore).

4 18 Smiths

5 Mary (52 occurrences).
Note: This could be performed more easily using pivot table grouping in SS (See Chapter 21 for the pivot table project).

6 2

Relational

7 212

8 364

9 423

10 Elizabeth Hayward. Record is unclear whether the occupation was 'cloakmaker' or 'clogmaker'. Which is more likely do you think? Elizabeth sailed on the *Lady Penrhyn*.

11 Duncan Sinclair was Master/Captain. There were 85 crew onboard.

12 Zero. This was an all-male ship.

13 9

14 5

15 Three that we know of. Note that a search will return one record with '−1' listed as the age at trial. This means the age was unknown so these records are excluded.