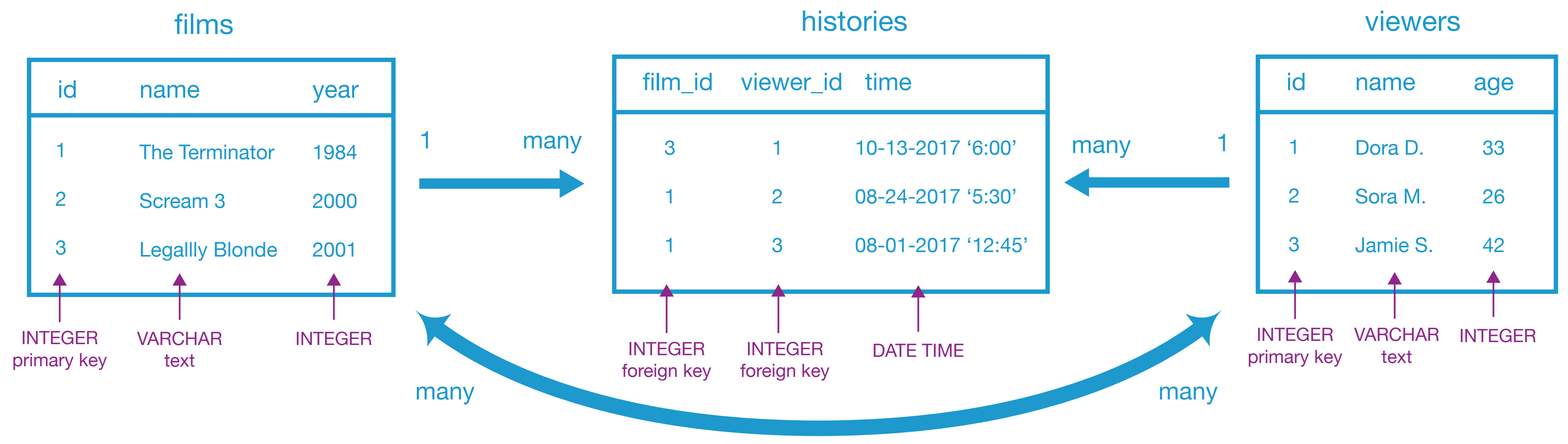
03 - Data Modelling: Many to Many

Part 1

1. Watched Films History app



films

id	name	year
1	The Terminator	1984
2	Scream 3	2000
3	Legallly Blonde	2001

histories

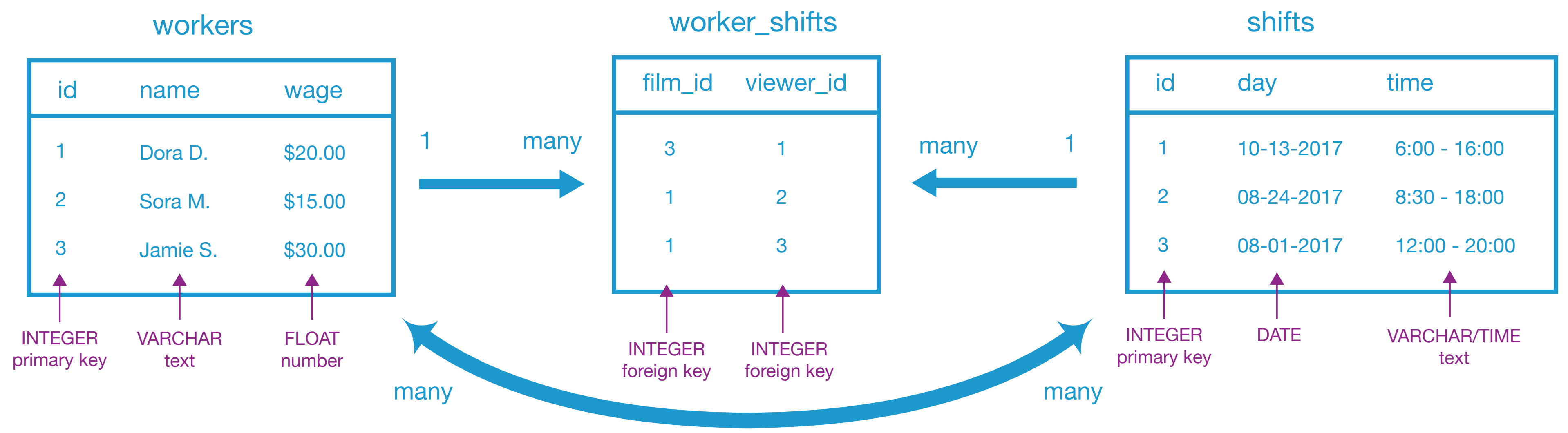
film_id	viewer_id	time
3	1	10-13-2017 ‘6:00’
1	2	08-24-2017 ‘5:30’
1	3	08-01-2017 ‘12:45’

viewers

id	name	age
1	Dora D.	33
2	Sora M.	26
3	Jamie S.	42

INTEGER primary key
VARCHAR text
INTEGER
1
many
INTEGER foreign key
INTEGER foreign key
DATE TIME
many
1
INTEGER primary key
VARCHAR text
INTEGER
many
many

2. Shift Schedules



workers

id	name	wage
1	Dora D.	$20.00
2	Sora M.	$15.00
3	Jamie S.	$30.00

worker_shifts

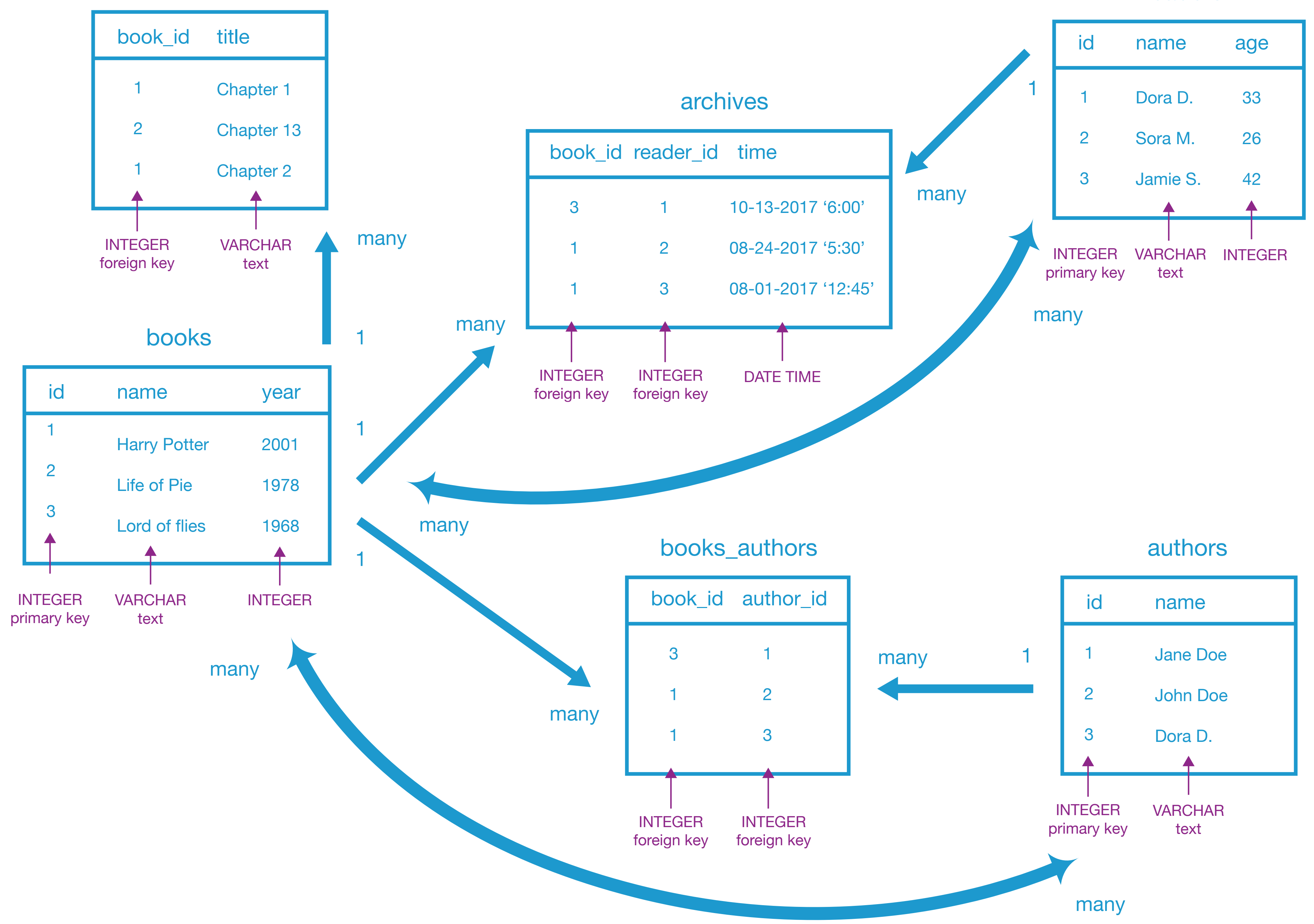
film_id	viewer_id
3	1
1	2
1	3

shifts

id	day	time
1	10-13-2017	6:00 - 16:00
2	08-24-2017	8:30 - 18:00
3	08-01-2017	12:00 - 20:00

INTEGER primary key
VARCHAR text
FLOAT number
1
many
INTEGER foreign key
INTEGER foreign key
many
1
INTEGER primary key
DATE
VARCHAR/TIME text
many
many

3. Books Archive app



chapters

book_id	title
1	Chapter 1
2	Chapter 13
1	Chapter 2

archives

book_id	reader_id	time
3	1	10-13-2017 ‘6:00’
1	2	08-24-2017 ‘5:30’
1	3	08-01-2017 ‘12:45’

readers

id	name	age
1	Dora D.	33
2	Sora M.	26
3	Jamie S.	42

books

id	name	year
1	Harry Potter	2001
2	Life of Pie	1978
3	Lord of flies	1968

books_authors

book_id	author_id
3	1
1	2
1	3

authors

id	name
1	Jane Doe
2	John Doe
3	Dora D.

INTEGER foreign key
VARCHAR text
many
1
1
many
many
1
many
INTEGER foreign key
INTEGER foreign key
DATE TIME
INTEGER primary key
VARCHAR text
INTEGER
many
INTEGER primary key
VARCHAR text
INTEGER
1
many
many
INTEGER foreign key
INTEGER foreign key
many
1
INTEGER primary key
VARCHAR text
many