Branch

Column Name	Data type	Size	Constraints
branchNo	CHAR	4	Primary key,NOT NULL,Start with B
street	VARCHAR	30	NOT NULL
city	VARCHAR	20	NOT NULL
state	CHAR	2	NOT NULL
zipCode	CHAR	5	NOT NULL UNIQUE
mgrStaffNo	CHAR	5	Foreign key,NOT NULL

Director

Column Name	Data type	Size	Constraints
directorNo	CHAR	5	Primary key,NOT NULL,Start with D
directorName	VARCHAR	30	NOT NULL

Video

Column Name	Data type	Size	Constraints
catalogNo	CHAR	-6	Primary key,NOT NULL
title	VARCHAR	40	NOT NULL
category	VARCHAR	10	NOT NULL
dailyRental	DECIMAL	4,2	NOT NULL DEFAULT 5.00
price	DECIMAL	4,2	
directorNo	CHAR	5	Foreign key,NOT NULL

Staff

Column Name	Data type	Size	Constraints
staffNo	VARCHAR	5	Primary key,NOT NULL,Start with S
name-	VARCHAR	40	NOT NULL
position	VARCHAR	40	NOT NULL
salary	NUMBER	5	NOT NULL
branchNo	CHAR	4	Foreign key,NOT NULL

Actor

Column Name	Data type	Size	Constraints
actorNo	VARCHAR	5	Primary key,NOT NULL,Start with A
actorName	VARCHAR	40	NOT NULL

Role

Column Name	Data Type	Size	Constraints
actorNo	VARCHAR	5	Composite key,NOT NULL,Start with A
catalogNo	CHAR	6	Composite key,NOT NULL
character	VARCHAR	40	NOT NUL

Member

Column Name	Data Type	Size	Constraints
memberNo	VARCHAR	7	Primary key,NOT NULL,Start with M
fName	VARCHAR	40	NOT NULL
lName	VARCHAR	40	NOT NULL
address	VARCHAR	40	NOT NULL

Registration

Column Name	Data Type	Size	Constraints
branchNo	CHAR	4	Composite key,NOT NULL,Start with B
memberNo	VARCHAR	7	Composite key,NOT NULL,Start with M
staffNo	VARCHAR	5	Foreign key,NOT NULL
dateJoined	DATE		NOT NULL

RentalAgreement

Column Name	Data Type	Size	Constraints
rentalNo	VARCHAR	7	Primary key,NOT NULL,Start with R
dateOut	DATE		NOT NULL
dateReturn	DATE		NOT NULL
memberNo	VARCHAR	7	Foreign key,NOT NULL,Start with M
videoNo	NUMBER	6	Foreign key,NOT NULL

VideoForRent

Column Name	Data Type	Size	Constraints
videoNo	NUMBER	7	Primary key,NOT NULL
available	CHAR	1	yes(Y)/no(N),Default 'N'
catalogNo	CHAR	6	Foreign key,NOT NULL
branchNo	CHAR	4	Foreign key,NOT NULL,Start with B

Figure 2.4

An example of the *StayHome* video rental database.

Branch

branchNo	street	city	state	zipCode	mgrStaffNo
B001	8 Jefferson Way	Portland	OR	97201	S1500
B002	City Center Plaza	Seattle	WA	98122	S0010
B003	14 – 8th Avenue	New York	NY	10012	S0415
B004	16 – 14th Avenue	Seattle	WA	98128	S2250

Staff

staffNo	name	position	salary	branchNo
S1500	Tom Daniels	Manager	46000	B001
S0003	Sally Adams	Assistant	30000	B001
S0010	Mary Martinez	Manager	50000	B002
S3250	Robert Chin	Supervisor	32000	B002
S2250	Sally Stern	Manager	48000	B004
S0415	Art Peters	Manager	41000	B003

Video

catalogNo	title	category	dailyRental	price	directorNo
207132	Die Another Day	Action	5.00	21.99	D1001
902355	Harry Potter	Children	4.50	14.50	D7834
330553	Lord of the Rings	Fantasy	5.00	31.99	D4576
781132	Shrek	Children	4.00	18.50	D0078
445624	Men in Black II	Action	4.00	29.99	D5743
634817	Independence Day	Sci-Fi	4.50	32.99	D3765

Director

directorNo	directorName
D1001	Lee Tamahori
D7834	Chris Columbus
D4576	Peter Jackson
D0078	Andrew Adamson
D5743	Barry Sonnenfeld
D3765	Roland Emmerick

Actor

actorNo	actorName
A1002	Pierce Brosnan
A3006	Elijah Wood
A2019	Will Smith
A7525	Tommy Lee Jones
A4343	Mike Myers
A8401	Daniel Radcliffe

Role

actorNo	catalogNo	character
A1002	207132	James Bond
A3006	330553	Frodo Baggins
A3006	902355	Harry Potter
A2019	634817	Captain Steve Hiller
A2019	445624	Agent J
A7525	445624	Agent K
A4343	781132	Shrek

Member

memberNo	fName	lName	address
M250178	Bob	Adams	57 – 11th Avenue, Seattle, WA 98105
M166884	Art	Peters	89 Redmond Rd, Portland, OR 97117
M115656	Serena	Parker	22 W. Capital Way, Portland, OR 97201
M284354	Don	Nelson	123 Suffolk Lane, Seattle, WA 98117

Figure 2.4

Continued

Registration

branchNo	memberNo	staffNo	dateJoined
B002	M250178	S3250	1-Jul-01
B001	M166884	S0003	4-Sep-02
B001	M115656	S0003	12-May-00
B002	M284354	S3250	9-Oct-01

RentalAgreement

rentalNo	dateOut	dateReturn	memberNo	videoNo
R753461	4-Feb-03	6-Feb-03	M284354	245456
R753462	4-Feb-03	6-Feb-03	M284354	243431
R668256	5-Feb-03	7-Feb-03	M115656	199004
R668189	2-Feb-03		M115656	178643

VideoForRent

videoNo	available	catalogNo	branchNo
199004	Y	207132	B001
245456	Y	207132	B002
178643	N	634817	B001
243431	Y	634817	B002