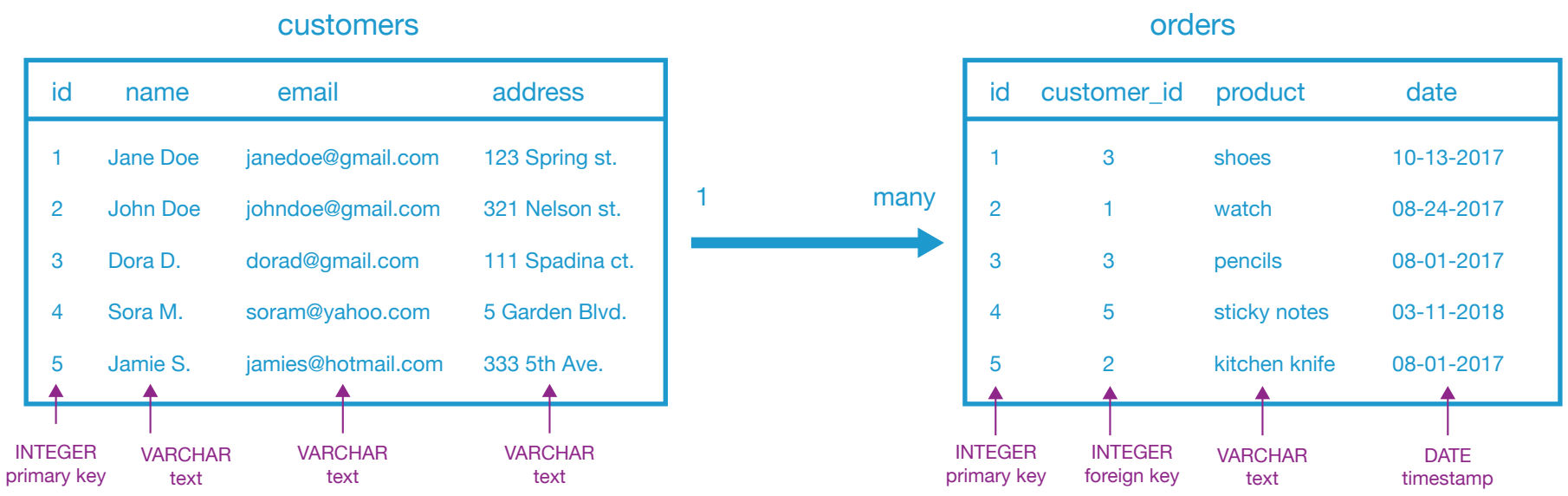
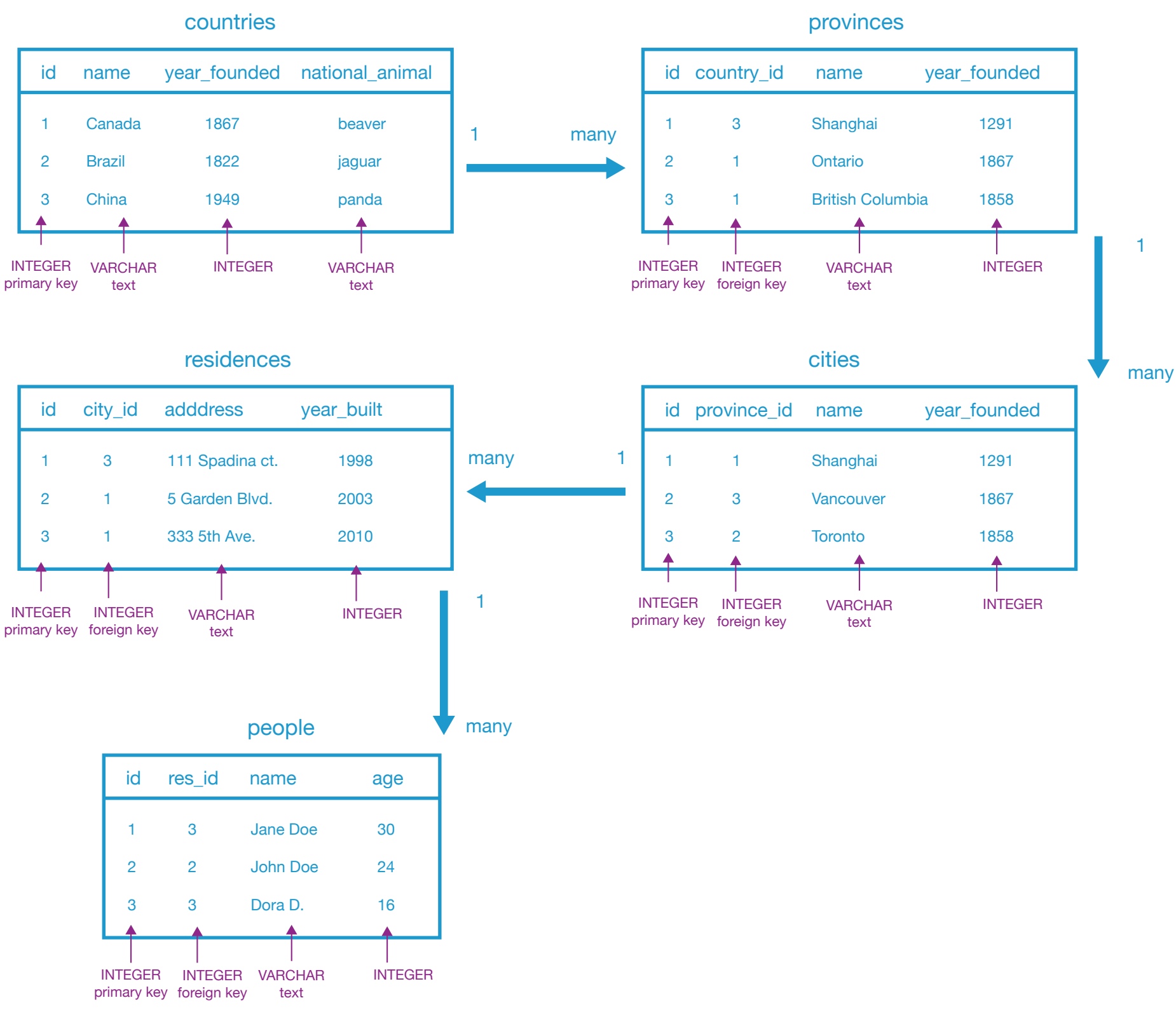
02 - Data Modelling: 1 to Many

Part 1

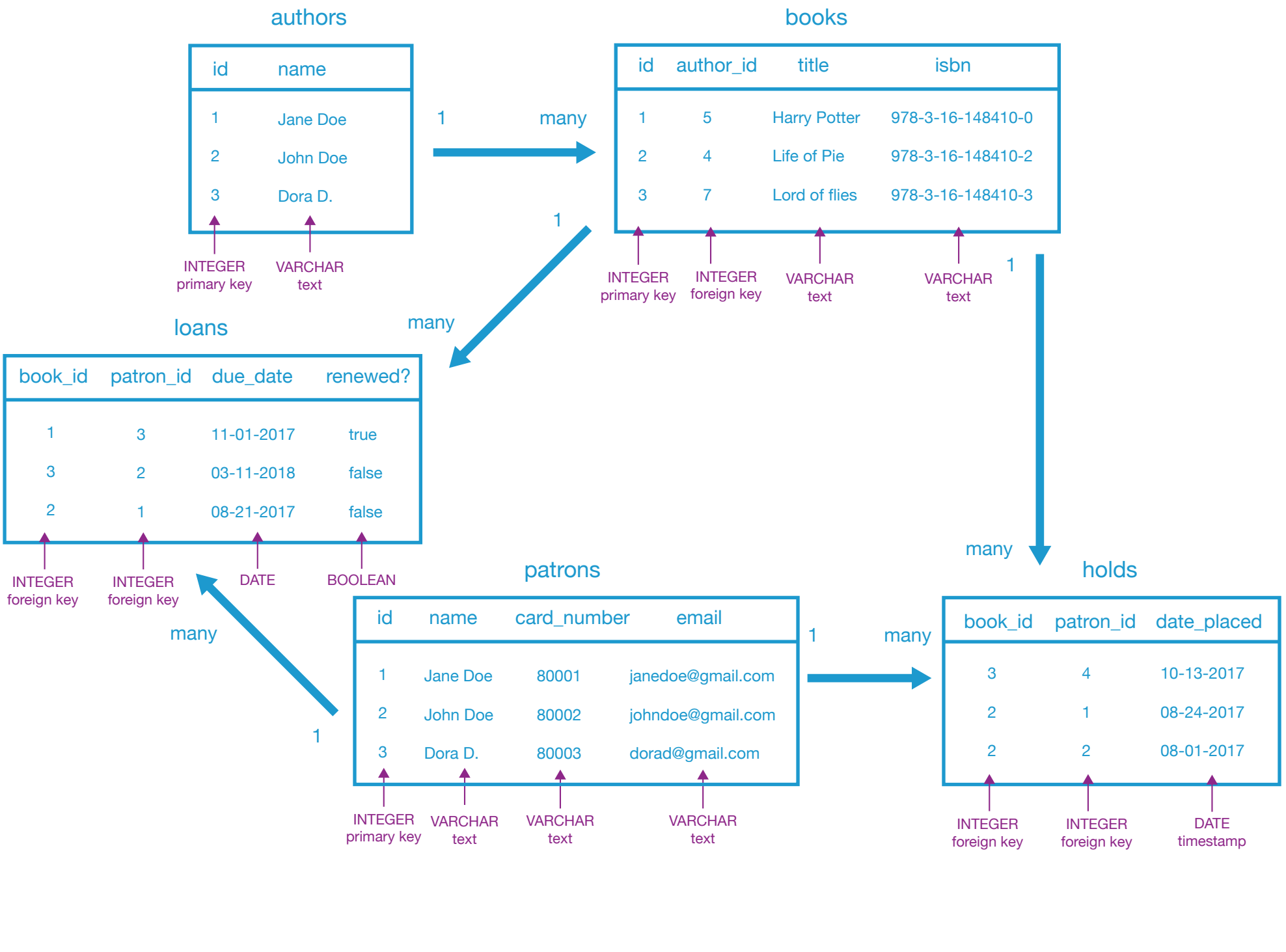
1. Customers with orders



2. People with addresses



3. A Library System



02 - Data Modelling: 1 to Many

Part 2

1. Stage play

actors

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

INTEGER primary key — VARCHAR text

1 → many

roles

play_id	actor_id	characters
1	1	The Phantom
1	2	Christine Daaé
1	3	Raoul de Chagny

INTEGER foreign key — VARCHAR text

many → 1

plays

id	director_id	title
1	3	The Phantom of the Opera
2	2	Lion King
3	1	Rent

INTEGER primary key — INTEGER foreign key — VARCHAR text

many → 1

directors

id	name
1	Jonny J
2	Mickey M
3	Doris Dee

INTEGER primary key — VARCHAR text

2. Veterinarian Appointment System

breeds

id	breed
1	dog
2	cat
3	parrot

INTEGER primary key — VARCHAR text

1 → many

pet_owners

id	name	email	phone
1	Jane Doe	janedoe@gmail.com	(123) 456-7890
2	John Doe	johndoe@gmail.com	(234) 567-8901
3	Dora D.	dorad@gmail.com	(444) 567-0987
4	Sora M.	soram@yahoo.com	(123) 234-3456
5	Jamie S.	jamies@hotmail.com	(666) 666-6666

INTEGER primary key — VARCHAR text — VARCHAR text — VARCHAR text

1 → many

pets

id	owner_id	breed_id	name	age
1	3	2	Cici	3
2	1	1	Gabby	12
3	3	1	Apollo	1
4	5	1	Spot	5
5	2	3	Precious	8

INTEGER primary key — INTEGER foreign key — INTEGER foreign key — VARCHAR text — INTEGER

1 → many

clinics

id	name	location
1	Glen forrest Vets	123 Spring st.
2	Vets R Us	321 Nelson st.
3	Valley Animal Hospital	111 Spadina ct.

INTEGER primary key — VARCHAR text

1 → many

appointments

pet_id	vet_id	clinic_id	appointment_ time
1	2	1	10-13-2017 ‘6:00’
2	1	3	08-24-2017 ‘5:30’
3	2	2	08-01-2017 ‘12:45’

INTEGER foreign key — INTEGER foreign key — INTEGER foreign key — DATE TIME

1 → many

veterinarians

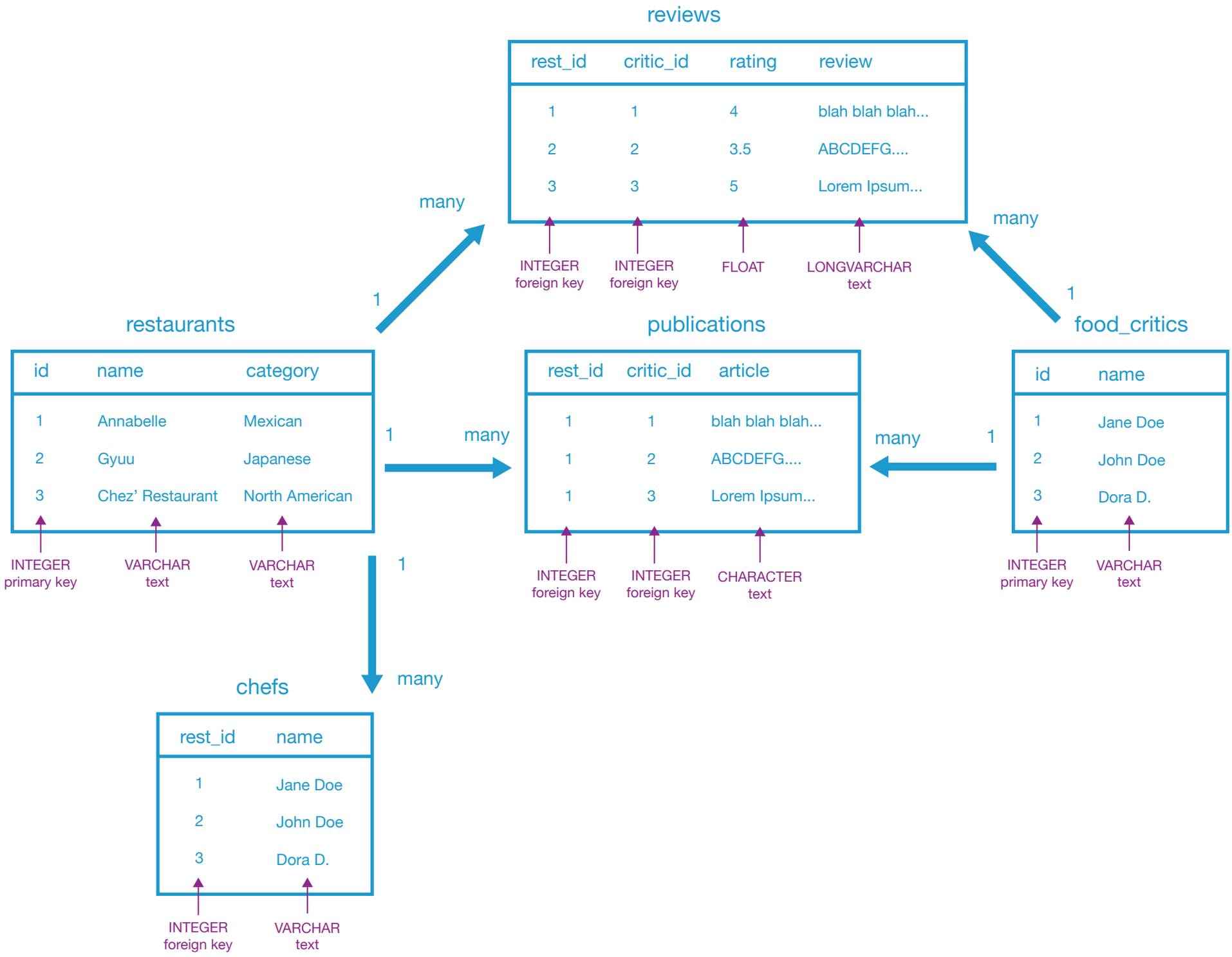
id	name
1	DR. Jane Doe
2	DR. John Doe
3	DR. Dora D.

INTEGER primary key — VARCHAR text

02 - Data Modelling: 1 to Many

Part 2

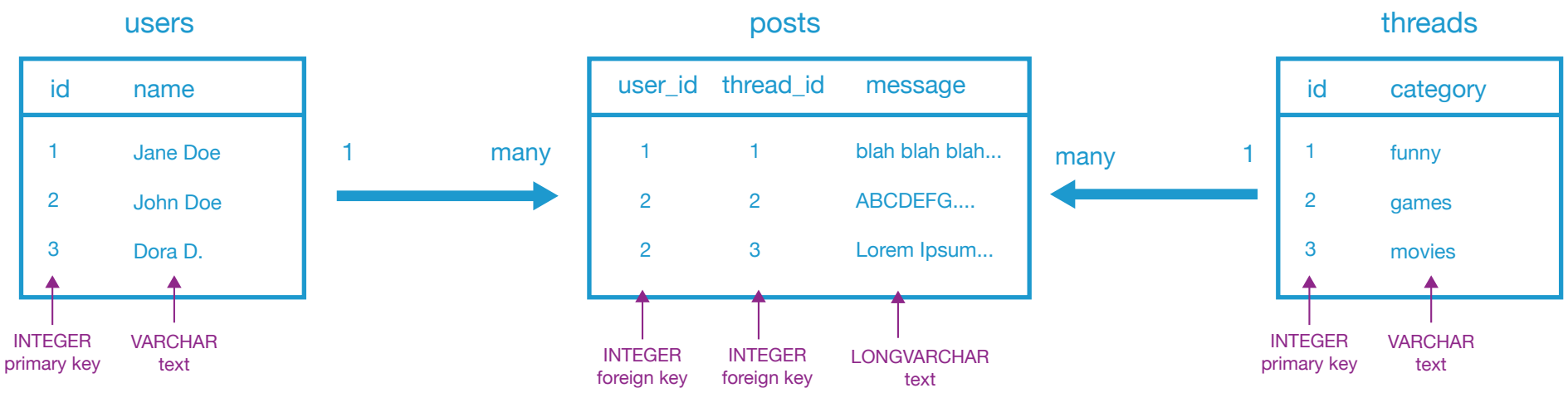
3. BlogTO Restaurants



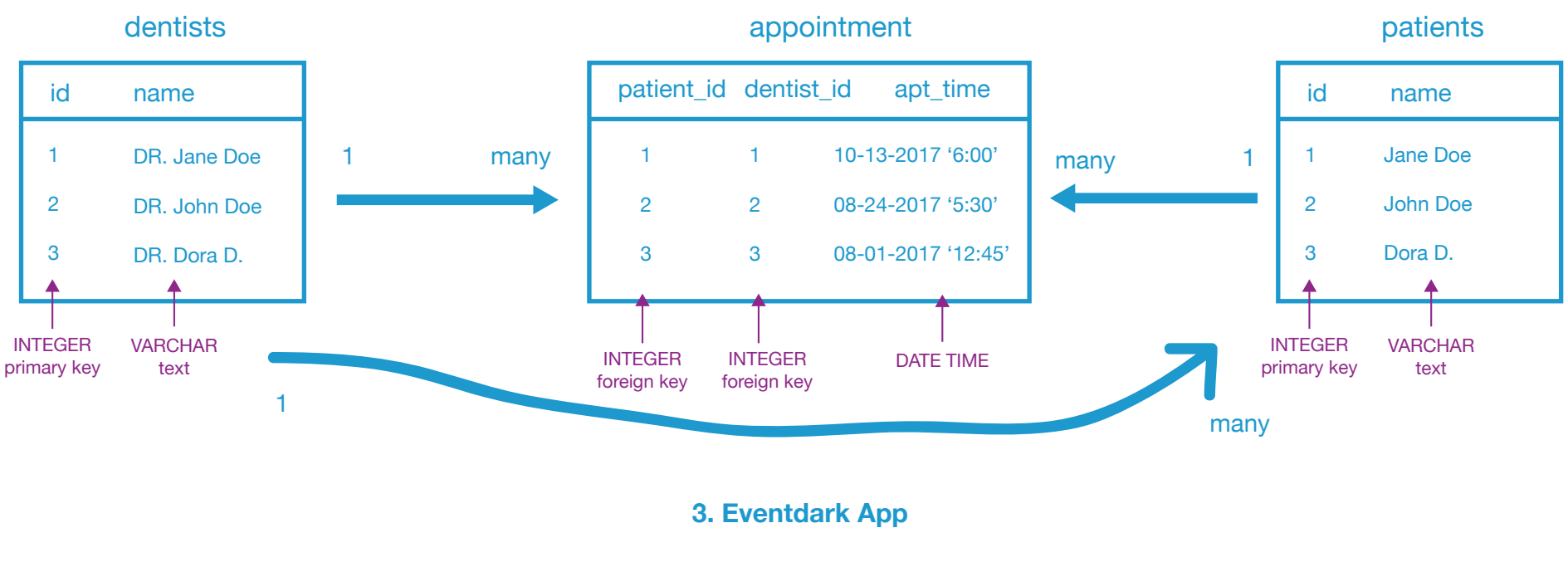
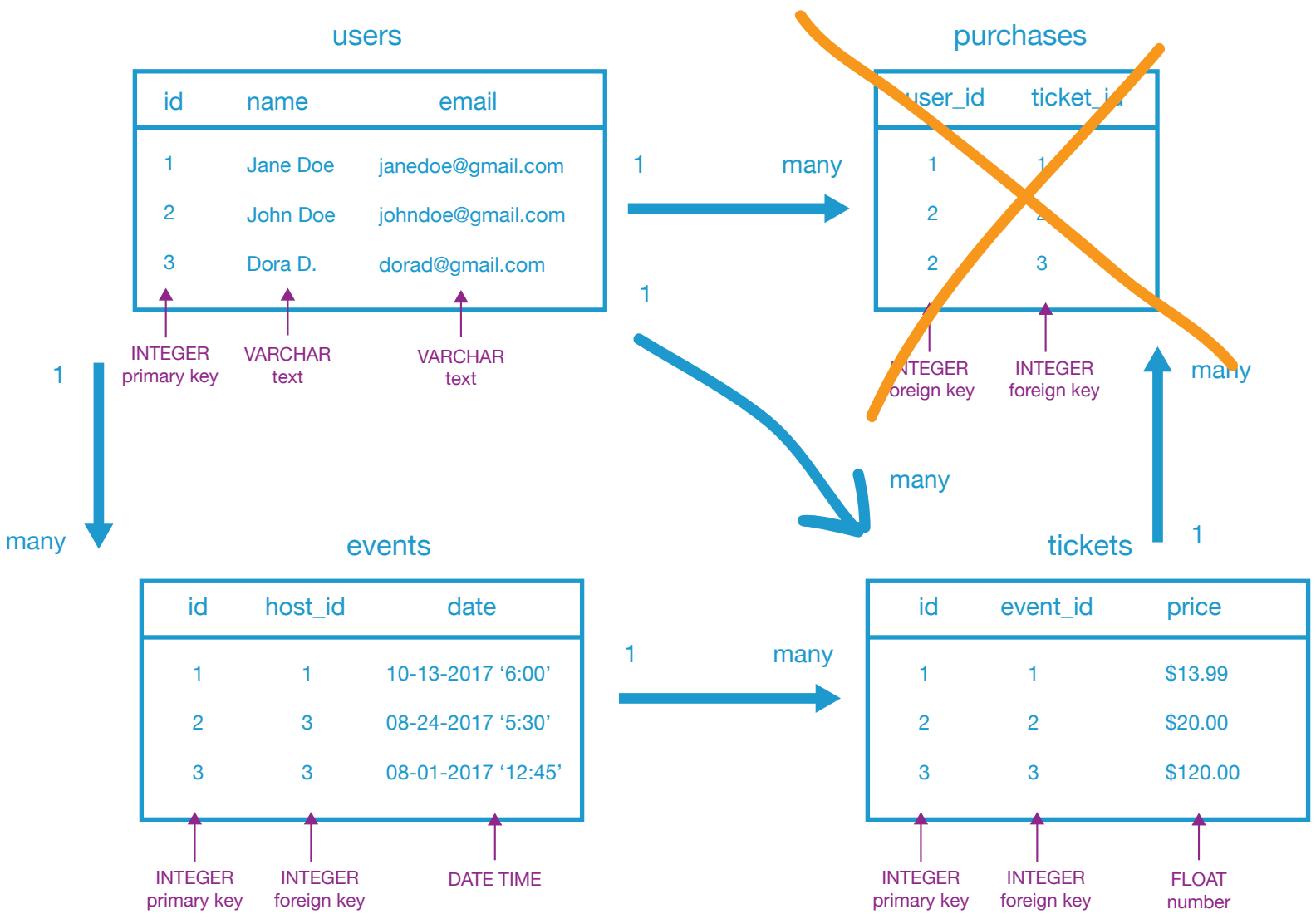
02 - Data Modelling: 1 to Many

Part 3

1. Forum with thread posts



2. Dentist Appointment App



3. Eventdark App