

NAME:**MATRIKELNUMMER:**

Example:

Welcome, my most appreciated visitors, to the Best Exotic Majpoor Home for the Elderly and Beautiful. We have many guests from around all the countries of the world, who enjoy the sensational and lovely care for their worldly needs of or experienced and beautiful nurses, and the prime medial attention their various conditions deserve by our superbly educated doctors. Each of our valued guests, like Elise, inhabits a spacious, classically decorated suite of incomparable individualism. Suites are organized in ensembles of three to five, which share a central medical checkpoint from which our personnel can attend to all needs with elegant haste. During daytime, we offer manifold opportunities to explore the priceless wonders of the surrounding lands through our guided tours for which pre-registration is, unfortunately, mandatory (however, in the case of early demise, cancellation is not required). Tomorrow, there will be an excursion to Blueberry Hills for instance.

(if you wonder ... check out this movie <http://www.thebestexoticmarigoldhotel.co.uk>)

1) Is the following an **entity** or an **entity type**? (2pts)

a) Best Exotic Majpoor Home for the Elderly and Beautiful:

ENTITY

b) Care Home Resident:

ENTITY TYPE

c) Suite:

ENTITY TYPE

d) Excursion to Blueberry Hill on August 13, 2013:

ENTITY

2) Is the following is an **attribute** or a **relationship**? (the underlined word...) (2pts)

a) Elise inhabits Suite No 5

RELATIONSHIP

b) Elise is from Australia

RELATIONSHIP

c) Elise's age is 92.

ATTRIBUTE

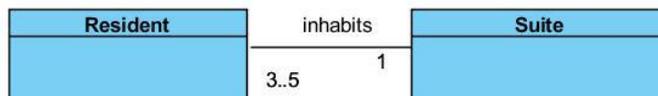
d) Elise was born on Dec 27.

ATTRIBUTE

3) Draw ER diagrams that model the following statements.

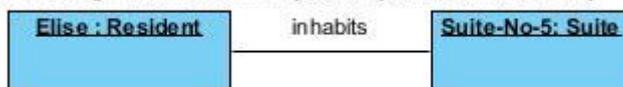
- a) Every Care Home Resident inhabits exactly one suite, and each suite accommodates 3-5 residents. (Add cardinality and existence – 2pts)

Visual Paradigm for UML Community Edition [not for commercial use]



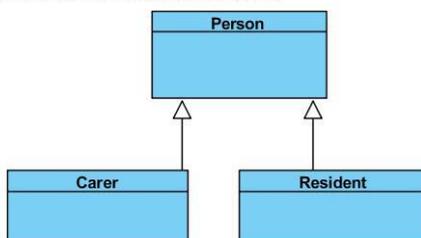
- b) Elise inhabits Suite No 5. (1pt)

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- c) Residents as well as Carers are Persons (1pt)

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- 4) Given the following data, what is a reasonable ER model? (5pts). Hint: Figure out which entity type is being described, and model this entity type.

XCoord	YCoord	NAME	ANSCHRIFT	PLZ	KAT3
1716156,5	5955831,33	Fachbibliothek Heilpädagogik-Kinderbücherei	Kalvariengürtel 62	8020	Bibliothek
1718871,78	5954165,43	Steiermärkisches Landesarchiv	Karmeliterplatz 3	8010	Bibliothek
1718123,09	5955325,1	Studienbibliothek der Pädagogischen Hochschule	Theodor-Körner-Straße 38	8010	Bibliothek
1718431,49	5952929,16	Frauenbibliothek	Radetzkystraße 18	8010	Bibliothek
1718677,86	5953933,37	Steirisches Volksliedwerk	Sporgasse 23	8010	Bibliothek

