**SQL Database Foundations: Section 1-2**

**Task 1**

**ABC School District – Student Registration Database**

|  |  |
| --- | --- |
| Personal Information |  |
| Full Name | Last Name: First Name: Middle Name: |
| Date of Birth |  |
| Gender |  |
| Home Address | Street Address: City: State/Province: Zip code: |
| Student ID (if known) |  |
| Parent/Guardian | Full Name: Relationship to Student: Contact Number: Email Address: |
| Emergency Contact Person | Full Name: Relationship to Student: Contact Number: Email Address: |

|  |  |
| --- | --- |
| Educational and Other Additional Information |  |
| Current Grade Level |  |
| Previous School Attended  (if applicable) |  |
| Transcripts from Previous School (if applicable) |  |
| Health Record Information | Allergies (Foods/Medications): Medical Condition: (if applicable) Immunization: |
| Extracurricular Activities | Sports: Clubs/Organizations: Volunteer Work: |

|  |
| --- |
| Electronic Signature of Parent/Guardian Providing the Consent |
| I agree that by typing my full name, I acknowledge that my electronic signature is the legal equivalent of my handwritten signature.  Full Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Today’s Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Task 2**

**XYZ Community Library – Library Management Database**

|  |  |
| --- | --- |
| Customer Information |  |
| Full Name | Last Name: First Name: Middle Name: |
| Date of Birth |  |
| Library Card Number |  |
| Address | Street Address: City: State/Province: Zip code: |
| Contact Details | Contact Number: Email Address: |

|  |  |
| --- | --- |
| Book Information |  |
| Title of the Book |  |
| Author(s) |  |
| ISBN |  |
| Book Edition |  |
| Publisher |  |
| Year Published |  |
| Genre |  |

|  |  |
| --- | --- |
| To Track Daily Operations of the Library |  |
| Library Reference Number |  |
| Library Card Number of the Customer |  |
| ISBN of the book |  |
| Check out date of the book |  |
| Return date of the book |  |
| Due date of the book |  |
| Late fee after due date |  |
| Damage fee if book is damaged |  |

**SQL Database Foundations: Section 3**

Exercise 1 – **Identify the Database Models**

a) Hierarchical Model

b) Network Model

c) Object-oriented Model

d) Relational Model

e) Flat File Model

**SQL Database Foundations: Section 4 (Business Requirements)**

**Task 1** – Identify the business rule and associated constraints from the case scenario described.

|  |  |
| --- | --- |
| Business Rules | Constraints |
| * Members will pay membership fees. | * Members can belong to one of the three types of membership (corporate, student, individual). |
| * Student membership is free. * Corporate and faculty memberships incur a fee. | * Type of membership can be changed only if sufficient justification is provided. |

**Task 2** – Identify the business rule and associated constraints from the case scenario described.

|  |  |
| --- | --- |
| Business Rules | Constraints |
| * The hospital ensures that their doctors have a minimum of seven years of working experience. | * Every doctor registered with the hospital is assigned with unique ID that starts with letter “DC”. |
| * Every patient is required to register with the hospital on their first visit. | * A unique patient number starting with the letters “PT” is assigned to patient upon arrival to the hospital. |

Next page: ‘Oracle Baseball League Store Database Answer’

Section 1 Lesson 4 Exercise: Business Requirements

Oracle Baseball League Store Database

|  |  |  |  |
| --- | --- | --- | --- |
| Note | Business Rule | Assumption | Problem |
| * When a customer places an order, the order items for a particular order are recorded in the database. | ✔︎ |  |  |
| * Teams get a discount on the list price depending on the number of players. |  | ✔︎ |  |
| * OBL has three sales representatives that officially only call on teams but have been known to handle individual customers complaints. |  | ✔︎ | ✔︎ |