

Higher Information Systems

2006 q.3 Relational Databases Integrity

A characteristic of normalised data is that it provides *entity integrity*. State the **two** main features of entity integrity. **(2)**

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A characteristic of normalised data is that it allows for *referential integrity*. Define the term referential integrity. **(2)**

2007P q.12 Relational Databases Integrity

a. In a relational database, what is meant by *referential integrity*? **(2)**

b. For an entity to have *entity integrity*, two conditions must apply. One condition is that every entity must have a primary key.

State the other condition necessary to ensure entity integrity? **(1)**

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Explain what is meant by *referential integrity* with regard to foreign keys. **(3)**

2008P q.2 Relational Databases Integrity

Strathdon Sports Centre stores information regarding members in a database. This data can be represented as:

MEMBER(name, address1, address2, telephone_no., type, renewal_date)

Describe two ways in which the use of telephone_no. as the primary key would affect the *entity integrity* of this entity. **(2)**

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Describe how *data integrity* may be enforced in a database. **(2)**

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Define the term entity integrity. **(2)**

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Explain the difference between *entity integrity* and *referential integrity*. **(2)**
