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| **Theory Notes Task: Databases** |

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| 1. Explain what is meant by the term, ‘database’  Collection of data stored in a logical manner |

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| 2. Give two examples of computerised databases  Hospital records |

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| 3. Give three reasons why people or organisations might find a database useful  They allow data to be calculated with, searched for and stored easily |

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| 4a. What is a database record?  It stores all the data about something |

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| 4b. What is the purpose of a database table?  Stores all the records of a specific type |

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| 4c. What is the purpose of a database field?  Stores a specific piece of data about an entity |

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| 5a. Explain what is meant by a ‘flat-file database’  A database with a single table |

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| 6b. Give an advantage for using a flat-file database  They are simple |

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| 6c. Give a disadvantage for using a flat-file database  Data duplication often becomes a problem and files can get very large |

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| 6d. What is meant by ‘data duplication’? |

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| 7a. Explain what is meant by a ‘relational database’ |

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| 7b. In a relational database data only needs to be stored once. Explain why this is an advantage. |

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| 8a. What is meant by a ‘primary key’ |

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| 8b. Give two examples of primary keys |

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| 8c. What is meant by the term ‘simple primary key’? |

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| 8d. What is meant by the term ‘compound primary key’? |

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| 8e. What is meant by the term ‘secondary key’? |

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| 8f. What is meant by the term ‘foreign key’? |

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| 8g. What is meant by the term ‘referential integrity’? |