

- [Physical database design]: List activities/steps
  - [Translate logical data model for target DBMS]
  - [Design file organisations and indexes]: NEXT TOPIC
  - [Design user views]
  - [Design security mechanisms]
  - [Consider the introduction of controlled redundancy (denormalization)]
  - [Monitor and tune the operational systems]: NEXT TOPIC
  - [Document the physical design]
  
- [Physical database design]: Explain
  
- [Translate logical data model for target DBMS]: Activities
  - [Choose the DBMS]: Explain
  - [Design base tables]: Explain? Oracle data types
  - [Design Integrity constraint]: Explain? Oracle integrity constraints
  - [Design representation of derived data]: Explain? Factors for store or calculate
  
- [Design user views]: Explain? Syntax? Purpose? Updatability properties
  - [Updateable]: Explain
  - [Not updateable]: Explain
  - [Possibly updateable]: Explain
  
- [Design security mechanism]: Explain? Purpose? Security risks? \*Guidelines\*?
  - [Authentication]: Explain
  - [Authorisation]: Explain
  - [Access control]: Explain? Syntax
    - [DAC vs MAC]: Explain
  
- [DBMS-level security methods]: Explain
- [Application-level security methods]: Explain? Disadvantages
  
- [Consider the introduction of controlled redundancy (denormalization)]: Explain? Advantages? Disadvantages? Methods
  - [Include repeating groups from 1:N (1 to many) relationship to the parent table]: Explain? Disadvantage
  - [Combine 1:1 relationship]: Explain? Disadvantage
  - [Create a single table from a generalisation hierarchy]: Explain? Disadvantage
  - [Duplicating foreign key columns to reduce joins]: Explain? Disadvantage
  
- [Document the physical design]: Explain