**Airport database design and implementation.**

Determine the scope of a future database application. Create class diagram identifying all object classes and their attributes, determine their associations and connectivity, identify object methods.

* Logical database design and implementation.
* Create logical database schema in Oracle account converting class diagram to SQL statements.
* Create types (some with REF properties), type bodies, object tables, additional attributes.
* Add object methods (MAP, ORDER).
* Create sample data and populate object tables.
* Working with database.
* Formulate SQL queries based on object-relational approach. Execute queries against it.
* Formulate queries using MAP and ORDER methods, ORDER BY value and other clauses, apply TREAT oracle function.
* Formulate SQL statements with Oracle XML functions returning XML data.
* Create XML documents using Oracle XSU.
* Store XML files in Oracle XML DB repository using DBMS\_XDB PL/SQL package.
* Formulate queries in XQuery language and execute the queries against created files in XML DB repository.