Assignments covered in this exam:

- Assignment 4: Implement database constraints
- Assignment 5: Basic SQL query operations: selection, projection, join, total and subtotal, calculated field
- Assignment 6: Regular subquery
- Assignment 7: Correlated subquery, set operators, outer join and database view.

PowerPoint presentations:

- **Relational database design**: Design database based on ERD
- **SQL Select basics**: SQL Select statements for doing selection, projection, join, total and subtotal, calculated field, sorting.
- **SQL Subquery**: Using subquery to return value for main query criteria, using subquery to avoid join.
- **Advanced SQL**:
  - SQL Correlated subquery: Be able to pass data from main query to subquery; Exists, Not Exists.
  - Outer joins
  - Set operators: Union, intersect, difference and Cartesian product.
  - Database views

I may give you an ERD, and ask you to design the relational database, similar to exam 1.
I may give you two or 3 tables, and ask you to write down the records that may be generated in a natural join, outer join, left outer join and right outer join.
I may give you a database with multiple tables and ask you to use SQL to retrieve information similar to questions in assignment 5.
I may ask you to use subquery or correlated subquery, or set operators to retrieve information similar to questions in assignment 6 and 7.