#1 Midterm control questions For the "Foundations of databases" course for the group KN-37zh

- 1. Characteristics of a modern DBMS (database management system). Subject area. Related tables. Isolation of data and application.
- 2. Characteristics of a modern DBMS (database management system). Redundancy. Consistency. Query language. Transaction properties.
- 3. Characteristics of a modern DBMS (database management system). Multiuser and concurrent access. Multiple view. Security.
- 4. Basic features of the relational model. Relations. Normalization.
- 5. Basic features of the relational model. Attribute atomicity. Unique values. Attribute domains.
- 6. Entity-relationship model. Entities, attributes and their representation using ER and IDEF1X notations. Examples of entities and attributes.
- 7. Entity-relationship model. Attribute types and their representation using ER and IDEF1X notations. Examples of entities and attributes of different types.
- 8. Entity-relationship model. Key attributes and their types. Examples of entities and key attributes.
- 9. Entity-relationship model. Key attributes and their representation using ER and IDEF1X notations. Examples of entities and key attributes.
- 10. Entity-relationship model. Relations and relation sets. Examples of relations.
- 11. Entity-relationship model. Relations and relation degrees. Examples of relations.
- 12. Entity-relationship model. Relations and relation cardinalities. Examples of relations.
- 13. Entity-relationship model. First normal form. Example of the relation normalization to the 1NF.
- 14. Entity-relationship model. Second normal form. Example of the relation normalization to the 2NF.
- 15. Entity-relationship model. Third normal form. Example of the relation normalization to the 3NF.