

Interview Questions

Q 1. What is Relational Algebra? (Wipro)

Please refer to the notes for definitions of the aforementioned operating systems under the heading "Relational Algebra".

Q 2. Types of operations in relational algebra.(Accenture)

The fundamental operations in relational algebra are **select, project, union, set difference, Cartesian product, and rename**.

Q 3. Explain the unary and binary operation in relational algebra. (TCS)

The select, project, and rename operations are called unary operations, because they operate on one relation.

The other three operations operate on pairs of relations and are, therefore, called binary operations.

Q 4. Why relational algebra is important in DBMS? (Mastercard)

Relational algebra is very important for several reasons: 1. it provides a formal foundation for relational model operations. Whereas the algebra defines a set of operations for the relational model, the relational calculus provides a higher-level declarative language for specifying relational queries.

Q 5. What are different set operations? (Amazon)

1. **Union**
2. **Intersection**
3. **Set difference**
4. **Cartesian product**

Q 6. Explain Union and intersection between relations.(Capgemini)

Please refer to the notes for definitions of the aforementioned operating systems under the heading "Union And Intersection".

Q 7. Explain the different unary operators in relational algebra.(VMware)

1. Select
2. Project
3. Rename

Q 8. Difference between select and project operation.(Adobe)

The Select operation operates horizontally on the table, on the other hand the Project operator works on a single table vertically.

Q 9. What is a cartesian product in relational algebra?(Veritas)

Please refer to the notes for definitions of the aforementioned operating systems under the heading "Cartesian product".

Q 10. Explain join operation. (Amdocs)

Please refer to the notes for definitions of the aforementioned operating systems under the heading "Join".
