

Select empid from emp where empid = 109 and Lastname = 'kumar';

Q1. Which one of the following given statements possibly contains the error?

- a. select empid from emp;
- b. select empid from emp where empid = 106; ✗
- c. select * from emp where empid = 103; ✓ ✗
- ✓ d. select empid where empid = 109 and Lastname = 'kumar';

↳ It's missing the 'from' clause, which should be

Q2. Which of the following normalization forms is based on the transitive dependency?

- a. 1NF
- ✓ b. 2NF
- c. 3NF
- d. BCNF

Q3. Which of the following represents the correct definition of a relation?

- ✓ a. It is a subset of the Cartesian product of the list of domains ✓
- b. It is a subset of the Cartesian product of the list of tuples ✗
- c. It is a subset of the Cartesian product of the list of attributes ✗
- d. It is a subset of the Cartesian product of the list of super keys ✗

Q4. Select the correct foreign key constraint.

- a. Entity Integrity
- b. Domain Integrity
- c. Relational Integrity
- ✓ d. Referential Integrity

Q5. Which of the following is a concurrency problem?

- a. Unrepeatable Update Problem
- b. Phantom Summary Problem
- ✓ c. Lost Update Problem
- d. Temporary Read Problem

Q6. Dijkstra's algorithm is used to solve _____ problems.

- a. Multi List Sorting
- b. Network Lock
- ✓ c. Single source shortest path
- d. All source shortest path

Dijkstra's Algorithm is primarily Used for finding the shortest path from a single source vertex to all other vertices in a weighted graph.

Q7. Which of the following sorting algorithms provides the best time complexity in the worst-case scenario?

- a. Bubble Sort ✗
- ✓ b. Selection Sort
- ✓ c. Merge Sort
- d. Quick Sort



Selection → the element

Merge Sort

1) Merge Sort = $O(n \log n)$ in worst-case scenario.
 Merge Sort

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**Gunjan Mukherjee, Biswadip Basu
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Decisions and Orders of the National Labor Relations Board United States. National Labor Relations Board,1991 **The Century** ,1890

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
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