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## Hackerearth sql test questions

### Hackerearth sql interview questions.

How do i prepare for a hackerrank test. Hackerearth sql questions and answers. Hackerearth sql test questions and answers.

You can use an SQL question to test a candidate's knowledge of queries used to retrieve relevant data from a specific database. While creating a test, you can either use SQL questions from HackerEarth's in-built library or create your own questions. SQL problems help you assess the following skills: Conceptual knowledge of an SQL serverA candidate must be able to understand the basics of Structured Query Language and be able to write and understand complex queries to retrieve data based on the requirements from the following databases: Program optimization skillsDetermine how a candidate writes a query with an ideal execution time. An efficient solution is one that takes the least amount of time for execution. Expertise in the basics of SQLAllows you to test and determine a candidate's skills across basic SQL topics including, but not limited to, the following: Advanced functions Aggregate functions Analytic functions Arithmetic operations Case statements Date and time functions Intersections Joins Multiple nested queries Nested case statements Nested queries Numeric functions Recursive functions String operations Unions Relational operations Window functions Analytical and problem-solving abilitiesYou can restrict the database that a candidate can use while writing queries. This allows you to assess how a candidate writes queries related to a specific database based on your requirements and real-time problems that you need solutions for. Hands-on experience in writing the SQL queriesYou can also determine if candidates are familiar with the SQL concepts including but not limited to the following: Creation and implementation of databases Maintenance and performance assurance of databases Transaction control Exception and error handling Row processing Declared variables SQL questions can be in the form of MCQs or questions that require you to write a solution. This is a detailed topic about how to answer SQL questions that require you to write a solution. Parts of an SQL question An SQL question comprises the following: Problem statement: Short description of the problem for which a candidate should provide a solution Sample input: Information or data that is given to a program for processing Sample output: Expected result after processing the given input as mentioned in the problem Allowed databasesHackerEarth Recruit supports the following databases. Answering SQL questions To answer the SQL questions, follow these steps: Read the question and instructions carefully. Write your SQL query in the code editor. Click SAVE. Click EXECUTE & TEST.



Note: Your query should pass through sample input and output test cases. It doesn't go through rigorous checks. Click SUBMIT. Note Once you have submitted your code, you cannot edit it.



However, you can make new submissions. All the submissions will be judged. HackerEarth provides the feature of automatically submitting the answer. You have answered an SQL question successfully. Evaluation Your code is evaluated automatically by a HackerEarth SQL service that we call SQL judge. Evaluating queries When you submit your query, we do the following: Setup a new database Create tables Load data specified in the test case Execute your query on the newly set up database and compare the result with expected output. If the output matches the expected result, then it is an accepted submission (AC). If the output does not match the expected result, then it is a wrong answer (WA). Determining whether the solution is correct Each problem will have the following: One or more input files each of which is based on the specifications mentioned in the problem statement. Each input file has a corresponding output file. Your program is run on each input files. To be judged as a correct submission, the output that is generated by your queries must match the output in the corresponding output files. Therefore, ensure that your statements are in order Notes Your output files must match the output files of the problem statement irrespective of what point in the program execution the output is written. It is recommended that you do not read all the input before starting the output. Instead, you can print each result as you are reading through the input.

#### Sample Multiple Choice Questions – Time Limit 10 minutes .... do not refer to any notes as test is "closed book"

##### SOLUTIONS

1. Which of the following groups of categories are shown in the Statement of Cash Flows?

- a. Merchandising, operating, financing
- b. Manufacturing, investing, financing
- c. Operating, investing, financing
- d. Selling, administering, financing

2. Assets are initially recorded at cost. Which cost principle is this based on?

- a. Replacement Cost
- b. Original Cost
- c. Relevant Cost
- d. Current Cost

3. On 1 February 2016, a delivery van was purchased for \$45,000. It is expected to have a useful life of 5 years and a trade-in value of \$3,000. The current market value for the delivery van is \$40,000. Calculate the Depreciation Expense for the six months ended 30 June 2016.

- a. \$42,000
- b. \$9,000
- c. \$8,400
- d. \$3,500

4. Accounting is a process that:

- a. is only about number crunching
- b. only provides information for the managers of the business
- c. provides information for decision making
- d. is designed only to provide information for the taxation authorities

5. Which of the following is a correct accounting equation?

- a. Liabilities + Owners Equity = Assets
- b. Owners Equity + Assets = Liabilities
- c. Assets + Owners Equity = Liabilities
- d. Assets = Owners Equity + Liabilities

6. When a business receives \$1,000 cash from Accounts Receivable (Debtors), the effect on the accounting equation is:

- a. a decrease in assets
- b. a change in owners equity
- c. no change in total assets
- d. a change in liabilities

7. Sunway Ltd bought equipment costing \$50,000 paying a cash deposit of \$20,000 and using a bank loan for the balance. As a result of these transactions, its total assets would be:

- a. decreased by \$20,000
- b. increased by \$20,000
- c. unchanged
- d. increased by \$30,000

8. Which of the following is not included in liabilities?

- a. Accounts Payable (Creditors)
- b. Income tax payable
- c. Office Equipment
- d. Bank Loan

9. A 12 month insurance policy of \$8,000 was paid on 1 April 2016. What is the amount of Prepaid Insurance as at 30 June 2016?

- a. \$1,500
- b. \$4,500
- c. \$3,000
- d. \$6,000

10. Prepaid Rent \$8,000, Drawings \$70,000, Accounts Receivable \$20,000, Loan \$75,000, Profit for the year \$100,000, Sales \$500,000, Retained Earnings @ Beginning \$50,000; What is the Retained Earnings at End?

- a. \$80,000
- b. \$88,000
- c. \$120,000
- d. \$150,000

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Your code will be judged as an incorrect submission if: You start your query in a way other than what is mentioned in the problem statement. For example, if your query starts with 'Enter the number' and it is not mentioned in the problem statement, then your script will be judged as an incorrect submission irrespective of what the rest of your queries do. You use a method other than using the standard input and output streamsFor example, if you use command line arguments, read from a file, open a dialog box, etc., your code will be judged as an incorrect submission.

Errors Time Limit Exceeded (TLE) Total execution time <= (time limit\*number of input files) In an online test, the judge allocates resources such as memory and so on for evaluating each submission. However, your submission cannot continue to run for an infinite amount of time, and therefore, the judge will stop your submission from running after a predefined (set by the recruiter) time. The TLE error will be displayed in the following cases: If your SQL script contains "sleep" and your queries stops executing. Your code terminates outside the time limit that was indicated For example, if the time limit of an SQL script is 2 seconds and your script terminate on 2.001 seconds, it means: Your script exceeded the time limit by 0.001 seconds The judge stopped evaluating your code after 2 seconds If your solution exceeds the amount of time that is allotted for the problem or test case, or your solution never finished running in the allotted time because it was stopped in between. There is no definite way to say whether the code is correct or not.

Wrong Answer (WA) This error indicates that your script ran successfully but the answer is incorrect. It will be displayed in the following cases: Your SQL script contains a bug You are not interpreting the problem statement correctly Your code matches the input test cases but does not match the output test cases Runtime Error (RE) This error will be displayed when your program compiled successfully but exited with an error or crashed. It indicates that your query has failed to execute. You can avoid this error by ensuring that: Your queries are syntactically correct Your script is not violating any of the problem constraints Constraints Violation (CV) This error will be displayed when one of the problem constraints is violated. The most common reasons for this error are as follows: You have created too many tables You have inserted too many rows inside a table The constraints include the following: Maximum tables per database will be restricted constrained and you can only create tables up to the number that is specified in the problem

Maximum rows per table will be restricted constrained and you can only insert rows up to the number that is specified in the problem. Your queries collectively have a hard time limit of 5 seconds.