



Babu Jagjivan Ram Government Degree College

Narayanaguda, Hyderabad. (T.S.) 500029

REPORT ON CERTIFICATE COURSE (2016-17)

- 1. Name of the Course: Certificate Course on Learn SQL in 30 Hours.
- 2. Department: Computer Science
- 3. Duration:12.09.2016 to 14.10.2016 No. of hours 30 Hours No. of days 15 Days
- 4. Whether brochure containing details of curriculum, assessment, procedures, etc., is enclosed? Yes
- 5. Number of students enrolled: 30 No.s
- 6. Whether list of students is enclosed? (Yes/No): Yes
- 7. Brief Report of the Certificate Course along with the outcome:

Objectives:

The certificate course is aimed to understand database concepts through structured query language (SQL). The target group of participants includes entry level programmers as well as mid level expertise programmers.

Report:

A total of 30 Students have enrolled for the certificate course. Students with great interest actively learned the course and successfully completed the course.

Outcome: The course gave good understanding over database concepts and provided thorough hands-on experience on SQL.

Signature of I/C of Dept.:

Babu Jagjivan Ram Government Degree College Narayanaguda, Hyderabad. (T.S.) 500029

NOTICE

10.09.2016

This is to inform all the students of B.A, B.Com and B.Sc that the department of computer science is organizing a certificate course titled "Learn SQL in 30 Hours" to be scheduled from 12.09.2016 through 14.10.2016 for a period of 30 Hours. Interested students are requested to contact the in-charge, department of computer science and register for the course on or before 11.09.2016.

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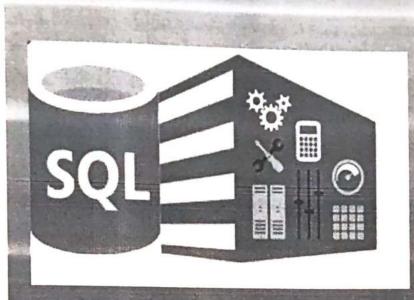
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BJR Government Degree College, Hyderabad Department of Computer Science

Certificate Course on Learn SQL in 30 Hours



About the Course: This certificate course is aimed to understand database concepts through structured query language (SQL). The target group of participants includes entry level programmers as well as mid level expertise programmers

Duration: 12.09.2016 - 14.10.2016 (30 Hours)

Registration: Please register on or before 11.09.2016

Contact: Incharge, Department of Computer Science

Course Brochure

3.J.R. Govt. Degree College Vittal Wadi, Narayanguda, Hyderabad, T.S.

Certificate Course on

Learn SQL in 30 Hours

Duration: 30 Hours

Syllabus

Structured Query Language or SQL is a standard database language that is used to create, maintain, destroy, update and retrieve the data from relational databases like MySQL, Oracle, SQL Server, PostgreSQL, etc.

Hour 1 to Hour 6:

Start with the basic concepts: For Hour 1 to Hour 6, you'll be knowing the basic database and SQL concepts such as Creating database, SELECT Clause, etc.

- Creating Database: This concept will make you learn how to create your
- Creating Tables and adding data: From this concept, you will learn how to create tables inside the database and insert data in them.
- SELECT Clause: Retrieve or fetch data from a database.
- FROM Clause: From which table in the database you have to select data.
- WHERE Clause: It forms the condition based on which data have to be queried.
- DELETE Statement: For deletion tasks.
- INSERT INTO: For insertion tasks.
- AND and OR operator: Selecting data based on AND or operator.
- Drop and Truncate: It will drop or truncate the collection as per the
- NOT Operator: It will select the data which is not based on the given condition.

Hour 7 to Hour 12:

From Hour 7 to Hour 12, you'll take a step forward and learn few advanced concepts like nested queries, wildcard operators, and other clauses.

- WITH Clause: Understanding the concept of with clause and using it to give the sub-query block a name.
- FETCH Clause: It will fetch the filtered data based upon certain conditions like fetching only the top 3 rows.
- · Arithmetic Operators: Using arithmetic operators to filter the data conveniently and precisely.
- · Wildcard Operators: To intelligently select the exact data like names starting or ending with T.
- · UPDATE Statement: Updating certain data entries based upon the
- ALTER Table: Adding, dropping, or modifying table based on the given condition.

- LIKE Clause: It will follow the pattern given on the condition for search.
- data select BETWEEN operator: It will and IN range between or in the given condition.
- CASE Statement: It will check for the conditionals and will query the data as per the respective case.
- EXISTS: It will form the nested query to filter out the data which exists in another query.

Hour 13 to Hour 18:

From Hour 13 to Hour 18, you'll be mainly learning the Aggregate functions in SQL.

- DISTINCT Clause: It will select only the distinct data, not repetitive.
- Count Function: Returns the total count of the data filtered.
- Sum Function: Return the sum of all the data being queried.
- Average Function: Return the average of all the data being queried.
- Minimum Function: It will return the minimum data from the whole data
- Maximum Function: It will return the maximum data from the whole data
- ORDER BY: This statement will order the queried data as per your convenience like in ascending or descending order.
- GROUP BY: This statement will group all your queried data with the column given in the condition.
- ALL and ANY Clause: They are logical operators in SQL and return
- boolean value as a result. TOP Clause: Used to fetch the limited number of rows from a database.

Hour 19 to Hour 24:

From Hour 19 to 24, you'll be learning and practicing the Joins in SQL. It is one of the most important concepts of SQL.

- Union Clause: Just like the mathematical union operator, this clause will make the union of the tables given.
- · Intersection Clause: It will join the two or more tables where they are
- Aliases: It will give an alias to the table which we can refer to as later.
- · Cartesian Join and Self Join: Sometimes to query out some data, we have to self join the table to itself.
- Inner, Left, Right and Full Joins: These four types of join comes into play when we have to join one table with another. Look upon their syntax and learn to deal with these joins.
- Division Clause: Division is typically required when you want to find out entities that are interacting with all entities of a set of different types of entities.
- Using Clause: If several columns have the same names but the datatypes do not match, the NATURAL JOIN clause can be modified with the

T 1.

USING clause to specify the columns that should be used for an EQUIJOIN.

· Combining values: Combining aggregate and non-aggregate values in SQL using Joins and Over clause.

MINUS Operator: It is used as "except" which means it will join the two intersecting tables and will minus one table so that only the intersection and the other table is covered.

Joining 3 or more tables: Although used very rarely but this will make you learn and understand how to join 3 or more tables and then carry out the querying operations.

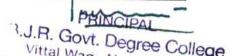
Hour 25 to Hour 30:

Miscellaneous: Since we have covered almost all the topics, we shall now move on to some of the miscellaneous topics, concepts, and functions. These are important parts of DBMS and SQL and will surely help you in your college exams and competitive exams like GATE CS.

- Views
- Creating Roles
- Constraints
- Transactions
- Mathematical functions
- Date functions
- Conditional Expressions
- General functions
- String functions
- Conversion Function
- Top-N Queries
- Advanced Functions

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| 107015401015 | Md. Afroz Uddin | | | |
| 107015401016 | Md.Amer | | | |
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| 107015401018 | Md.Kamran | | | |
| 107015401019 | Md.Raheem Uddin | | | |
| 107015401020 | Md.Shoaib Uddin | | | |



Babu Jagjivan Ram Government Degree College

Narayanaguda, Hyderabad. (T.S.) 500029

Certificate Course on Learn SQL in 30 Hours Final Assessment – Question Paper

14.10.2016

| 1. | What is the full form of SQL? |) |
|----------|---|------------------------------|
| a) | Structured Query List | |
| b) | Structure Query Language | |
| c) | Sample Query Language | |
| d) | None of these. | |
| 2. | Which of the following is not a valid SQL type? | () |
| a) | FLOAT | |
| b) | NUMERIC | |
| c) | DECIMAL | |
| d) | CHARACTER | |
| 3. | Which of the following is not a DDL command? | () |
| a) | TRUNCATE | |
| b) | ALTER | |
| c) | CREATE | |
| d) | UPDATE | |
| 4. | Which statement is used to delete all rows in a table without | it having the action logged? |
| () | | |
| a) | DELETE | |
| b) | REMOVE | |
| c) | DROP | |
| d) | TRUNCATE | |
| 5. | SQL Views are also known as () | |
| a) | Simple tables | |
| b) | Actual tables | |
| c) | Virtual tables | |
| d) | Complex tables | |
| 6. | How many Primary keys can have in a table? | () |
| a) | Only 1 | |
| b) | Only 2 | |
| c) | Depends on no. columns | |
| d) | Depends on DBA | |
| 7. | Which datatype can store unstructured data in a column? | () |
| a) | CHAR | |
| b) | RAW | |
| c) d) | NUMERIC VARCHAR | |
| 8. | Which of the following is not Constraint in SQL? | () |
| a) | Primary Key | () |
| b) | Not Null | |
| c) | Check | |
| d) | Union | |
| 9. | Which of the following is not a valid aggregate function? | () |
| a) | COUNT | |

| | COMPUTE |
|----------|--|
| | SUM |
| | MAX |
| | Which data manipulation command is used to combines the records from one or more tables? |
| 10. | () |
| -) | SELECT |
| a) | PROJECT |
| b) | JOIN |
| c) | PRODUCT |
| d) | A SAPAL III |
| 11. | Which operator is used to compare a value to a specified list of values? () |
| a) | ANY |
| b) | BETWEEN |
| c) | ALL |
| d) | IN |
| ۵) | () |
| 12. | What operator tests column for deserve |
| a) | NOT Operator |
| b) | Exists Operator |
| c) | IS NULL Operator |
| d) | None of the above |
| | In which of the following cases a DML statement is not executed? () |
| 13. | When existing rows are modified. |
| a) | When a table is deleted. |
| b) | When some rows are deleted. |
| c) | |
| d) | All of the above |
| 14. | If we have not specified ASC or DESC after a SQL ORDER BY clause, the following is used by |
| defaul | |
| a) | DESC |
| b) | ASC |
| c) | There is no default value |
| d) | None of the mentioned |
| 16 | Which of the following statement is true? |
| 15. | TRUNCATE free the table space while DELETE does not. |
| a) | Both TRUNCATE and DELETE statements free the table's space. |
| b) | Both TRUNCATE and DELETE statement does not free the table's space. |
| c) d) | DELETE free the table space while TRUNCATE does not. |
| u) | Description of the second of t |
| 16. | What is returned by INSTR ('JAVAT POINT', 'P')? () |
| a) | 6 |
| b) | 7 PONT |
| c) | POINT |
| d) | JAVAT |
| 17. | A command that lets you change one or more field in a table is: |
| a) | INSERT |
| b) | MODIFY |
| c) | LOOK-UP |
| d) | All of the above |
| 18. | Which of the following is also called an INNER JOIN? |
| a) | SELF JOIN |
| b) | EQUI JOIN |
| c) | NON-EQUI JOIN |
| d) | None of the above |

Which of the following is true about the HAVING clause?

19.

Similar to the WHERE clause but is used for columns rather than groups. Similar to WHERE clause but is used for rows rather than columns. (B (C (C)) Similar to WHERE clause but is used for groups rather than rows. Acts exactly like a WHERE clause. clause creates temporary relation for the query on which it is defined. 20. () WITH a) FROM b) WHERE c) **SELECT** d)

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Course Completion Result

| 107015129011 MD.Arif | | Course Completed | |
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| 107015129012 | Arshad biag | Course Completed | |
| 107015129013 | P.Praveen kumar | Course Completed | |
| 107015129014 | Md Shahbazuddin | Course Completed | |
| 107015129015 | Syed Shaibaz | Course Completed | |
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| 107015129017 | Hina Kauser | Course Completed | |
| 107015129018 | Md.Masood Zufekhar Ali | Course Completed | |
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Course Completion Certificate(s)



BJR GOVERNMENT DEGREE COLLEGE Narayanguda, Hyderabad



Department of Computer Science Applications

Certificate

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| | LEARN SQL in 30 Hours |
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| held during 12-09-2016 | |

J.R. Govt. Degree College Vittal Wadi, Narayanguda, Hyderabad, T.S.

Students Attendance

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