

Certificate course on Learn SQL



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
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NOTICE

10.09.2016

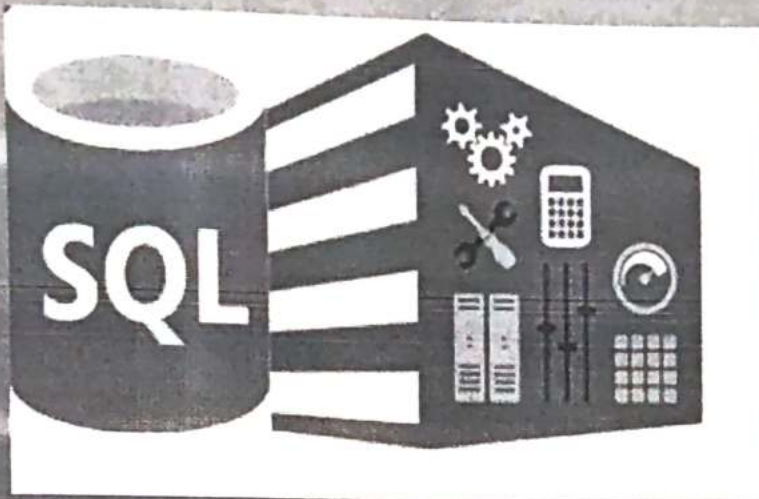
This is to inform all the students of B.A, B.Com and B.Sc that the department of computer science is organizing a certificate course titled "Learn SQL in 30 Hours" to be scheduled from 12.09.2016 through 14.10.2016 for a period of 30 Hours. Interested students are requested to contact the in-charge,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


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Principal
I.R. Govt. Degree College
Attal Wadi, Narayanguda,
Hyderabad, T.S.



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


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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 own database.
- 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 condition.
- 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 condition provided.
- 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.
- BETWEEN and IN operator: It will select the data 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 that is being queried.
- Maximum Function: It will return the maximum data from the whole data that is being queried.
- 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 intersecting.
- 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

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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Hyderabad. T.S.

List of Enrolled Students - Learn SQL in 30 Hours (2016-2017)

107015129011	MD.Arif
107015129012	Arshad biag
107015129013	P.Praveen kumar
107015129014	Md Shahbazuddin
107015129015	Syed Shalbaz
107015129016	Neha Begum
107015129017	Hina Kauser
107015129018	Md.Masood Zufekhar Ali
107015129019	S. Bharat Raj
107015129020	P.Srinivasulu
107015156511	T.Pramod Kumar
107015156512	D.Ashok
107015156513	K.Ramesh
107015156514	M.Shiva Kumar
107015156515	A.Samba Shivudu
107015156516	P.Mahesh
107015156517	S.Chenaiah
107015156518	K.Venkatesh
107015156519	M.Mahinder
107015156520	G.Sai Kiran
107015401011	Md.Qayyam
107015401012	MD.Saad
107015401013	Md.Saad Nauman
107015401014	Md.Abdul Mubeen
107015401015	Md. Afroz Uddin
107015401016	Md.Amer
107015401017	Md.Fahad
107015401018	Md.Kamran
107015401019	Md.Raheem Uddin
107015401020	Md.Shoaib Uddin

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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 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) NUMERIC
d) 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

10. Which data manipulation command is used to combines the records from one or more tables?
()

- a) SELECT
- b) PROJECT
- c) JOIN
- d) PRODUCT

11. Which operator is used to compare a value to a specified list of values? ()

- a) ANY
- b) BETWEEN
- c) ALL
- d) IN

12. What operator tests column for absence of data ()

- a) NOT Operator
- b) Exists Operator
- c) IS NULL Operator
- d) None of the above

13. In which of the following cases a DML statement is not executed? ()

- a) When existing rows are modified.
- b) When a table is deleted.
- c) When some rows are deleted.
- 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 default ()

- a) DESC
- b) ASC
- c) There is no default value
- d) None of the mentioned

15. Which of the following statement is true? ()

- a) TRUNCATE free the table space while DELETE does not.
- b) Both TRUNCATE and DELETE statements free the table's space.
- c) Both TRUNCATE and DELETE statement does not free the table's space.
- d) DELETE free the table space while TRUNCATE does not.

16. What is returned by INSTR ('JAVAT POINT', 'P')? ()

- a) 6
- b) 7
- 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

19. Which of the following is true about the HAVING clause? ()

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.

Similar to WHERE clause but is used for groups rather than rows.

Acts exactly like a WHERE clause.

20. _____ clause creates temporary relation for the query on which it is defined.

()

- a) WITH
- b) FROM
- c) WHERE
- d) SELECT

WITH

Course Completion Result

107015129011	MD.Arif	Course Completed
107015129012	Arshad biag	Course Completed
107015129013	P.Praveen kumar	Course Completed
107015129014	Md Shahbazuddin	Course Completed
107015129015	Syed Shaibaz	Course Completed
107015129016	Neha Begum	Course Completed
107015129017	Hina Kauser	Course Completed
107015129018	Md.Masood Zufekhar Ali	Course Completed
107015129019	S. Bharat Raj	Course Completed
107015129020	P.Srinivasulu	Course Completed
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107015156516	P.Mahesh	Course Completed
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107015401016	Md.Amer	Course Completed
107015401017	Md.Fahad	Course Completed
107015401018	Md.Kamran	Course Completed
107015401019	Md.Raheem Uddin	Course Completed
107015401020	Md.Shoaib Uddin	Course Completed

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Course Completion Certificate(s)



BJR GOVERNMENT DEGREE COLLEGE
Narayanguda, Hyderabad



Department of Computer Science/Applications

Certificate

This is to certify that Mr/Ms. SANA KAUSER
bearing registered no. 1070-14-129-010 has successfully completed
the certificate course on LEARN SSL in 30 Hours

held during 12-09-2016 to 14-10-2016.

K. Srinivas Reddy
Coordinator


[Signature]
Principal

[Signature]
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B.J.R. Govt. Degree College
Vittal Wadi, Narayanguda,
Hyderabad. T.S.

Students Attendance

SNo	Sname	12.09.16	14.09.16	16.09.16	18.09.16	20.09.16	22.09.16	24.09.16	26.09.16
107015129011	MD.Arif								
107015129012	Arshad biag								
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107015401019	Md.Rahem Uddin								
107015401020	Md.Shoaib Uddin								

SNo.	Sname	27.09.16	29.09.16	01.09.16	03.09.16	13.09.16	14.09.16
107015129011	MD.Arif						
107015129012	Arshad biag						
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