

Certificate course on Learn SQL



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

REPORT ON CERTIFICATE COURSE (2017-18)

1. Name of the Course: Certificate Course on Learn SQL in 30 Hours.
2. Department: Computer Science
3. Duration: 06.09.2017 to 05.10.2017 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

04.09.2017

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 06.09.2017 through 05.10.2017 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 05.09.2017.



Principal
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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: 06.09.2017 - 05.10.2017
(30 Hours)

Registration: Please register on or before 05.09.2017

Contact: In-charge, Department of Computer Science

Course Brochure


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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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ist of Enrolled Students - Learn SQL In 30 Hours (2017-2018)

16011070401020	MOHD ABDUL AHMED
16011070401021	MOHD GHOUSE
16011070401022	PABBALA MAHESH
16011070401023	P MANJUNATH
16011070401024	SHAIK AHMED
16011070401025	SUBASH SINGH
16011070401026	SYED ADILULLAH QADRI
16011070401028	SYED ASIF
16011070401029	T NIKHITHA
16011070401030	VADDE SHIVA KUMAR
16011070445010	JAKKAGALLA KRISHNA KUMAR
16011070445012	KORRA PRIYANKA
16011070445013	KOUDI PRASHANTH REDDY
16011070445015	MAJIDUNNISA BEGUM
16011070445016	MOHAMMED UZRABANU
16011070445017	NADIMINTI SRILEKHA
16011070445019	PUDURI KIRANKUMAR
16011070445020	PUSALA SHIVA KUMAR
16011070445021	SHANIGARAPU DEVENDAR
16011070445023	T VENKATESH
16011070445511	KAMURTHI SHIRISHA
16011070445512	KETHAVATH VEERESH
16011070445513	KOPPULA SHANTHALAKSHMI
16011070445514	LASMA NAGESH
16011070445515	MAHAGAM RAJESHWAR
16011070445516	MOHAMMED ARIF
16011070445517	NAYINI LALITHA
16011070445518	PATHLAVATH CHANDRAKALA
16011070445519	PERLA SREEKANTH
16011070445520	RAMAVATH HANUMANTHU


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

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
b) COMPUTE

SUM
MAX

Which data manipulation command is used to combine the records from one or more tables?

()

SELECT
PROJECT
JOIN
PRODUCT

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

ANY
BETWEEN
ALL
IN

What operator tests column for absence of data ()

NOT Operator
Exists Operator
IS NULL Operator
None of the above

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

When existing rows are modified.
When a table is deleted.
When some rows are deleted.
All of the above

If we have not specified ASC or DESC after a SQL ORDER BY clause, the following is used by default ()

DESC
ASC
There is no default value
None of the mentioned

Which of the following statement is true? ()

TRUNCATE free the table space while DELETE does not.
Both TRUNCATE and DELETE statements free the table's space.
Both TRUNCATE and DELETE statement does not free the table's space.
DELETE free the table space while TRUNCATE does not.

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

6
7
POINT
JAVAT

A command that lets you change one or more field in a table is: ()

INSERT
MODIFY
LOOK-UP
All of the above

Which of the following is also called an INNER JOIN? ()

SELF JOIN
EQUI JOIN
NON-EQUI JOIN
None of the above

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

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

b) Similar to WHERE clause but is used for rows rather than columns.
c) Similar to WHERE clause but is used for groups rather than rows.
d) 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


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Course Completion Result

16011070401020	MOHD ABDUL AHMED	Course Completed
16011070401021	MOHD GHOUSE	Course Completed
16011070401022	PABBALA MAHESH	Course Completed
16011070401023	P MANJUNATH	Course Completed
16011070401024	SHAIK AHMED	Course Completed
16011070401025	SUBASH SINGH	Course Completed
16011070401026	SYED ADILULLAH QADRI	Course Completed
16011070401028	SYED ASIF	Course Completed
16011070401029	T NIKHITHA	Course Completed
16011070401030	VADDE SHIVA KUMAR	Course Completed
16011070445010	JAKKAGALLA KRISHNA KUMAR	Course Completed
16011070445012	KORRA PRIYANKA	Course Completed
16011070445013	KOUDI PRASHANTH REDDY	Course Completed
16011070445015	MAJIDUNNISA BEGUM	Course Completed
16011070445016	MOHAMMED UZRABANU	Course Completed
16011070445017	NADIMINTI SRILEKHA	Course Completed
16011070445019	PUDURI KIRANKUMAR	Course Completed
16011070445020	PUSALA SHIVA KUMAR	Course Completed
16011070445021	SHANIGARAPU DEVENDAR	Course Completed
16011070445023	T VENKATESH	Course Completed
16011070445511	KAMURTHI SHIRISHA	Course Completed
16011070445512	KETHAVATH VEERESH	Course Completed
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16011070445514	LASMA NAGESH	Course Completed
16011070445515	MAHAGAM RAJESHWAR	Course Completed
16011070445516	MOHAMMED ARIF	Course Completed
16011070445517	NAYINI LALITHA	Course Completed
16011070445518	PATHLAVATH CHANDRAKALA	Course Completed
16011070445519	PERLA SREEKANTH	Course Completed
16011070445520	RAMAVATH HANUMANTHU	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. KORRA PRIYANKA
bearing registered no. 1070-16-445-012 has successfully completed
the certificate course on Learn SQL in 30 Days

held during 06-09-2017 to 05-10-2017.

K. Srinivas Reddy
Coordinator

[Signature]
Principal

[Signature]
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Hyderabad. T.S.

Students Attendance

Student Attendance - SQL in 30 Hours (2017-2018)

SNo	Sname	06.09.17	07.09.17	08.09.17	11.09.17	12.09.17	13.09.17	14.09.17	15.09.17	16.09.17
1601107040100	MOHIB ABDUL AHMED	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040101	MOHIB GHOUSE	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040102	PABBALA MAIHESH	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040103	P MANJUNATHI	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040104	SHAIK AHMED	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040105	SUBASH SINGH	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040106	SYED ADILULLAH QADRI	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040107	SYED ASIF	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040108	T NIKHITHA	Present	Present	Present	Present	Present	Present	Present	Present	Present
1601107040109	VADDE SHIVA KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445010	JAKKAGALLA KRISHNA KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445012	KORRA PRIYANKA	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445013	KOUDI PRASHANTHI REDDY	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445015	MAJIDUNNISA BEGUM	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445016	MOHAMMED UZRABANU	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445017	NADIMINTI SRILEKHA	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445019	PUDURI KIRANKUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445020	PUSALA SHIVA KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present
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16011070445023	T VENKATESH	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445031	KAMURTHI SHIRISHA	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445032	KETHAVATH VEERESH	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445033	KOPPULA SHANTHALAKSHMI	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445034	LASMA NAGESHI	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445035	MAHAGAM RAJESHWAR	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445036	MOHAMMED ARIF	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445037	NAYINI LALITHA	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445038	PATILAVATH CHANDRAKALA	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445039	PERLA SREEKANTH	Present	Present	Present	Present	Present	Present	Present	Present	Present
16011070445040	RAMAVATHI HANUMANTHU	Present	Present	Present	Present	Present	Present	Present	Present	Present

SNo.	Sname	18.09.17	19.09.17	20.09.17	04.10.17	05.10.17
16011070401020	MOHIB ABDUL AHMED	Present	Present	Present	Present	Present
16011070401021	MOHIB GHOUSE	Present	Present	Present	Present	Present
16011070401022	PABBALA MAIHESH	Present	Present	Present	Present	Present
16011070401023	P MANJUNATHI	Present	Present	Present	Present	Present
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16011070445023	T VENKATESH	Present	Present	Present	Present	Present
16011070445031	KAMURTHI SHIRISHA	Present	Present	Present	Present	Present
16011070445032	KETHAVATH VEERESH	Present	Present	Present	Present	Present
16011070445033	KOPPULA SHANTHALAKSHMI	Present	Present	Present	Present	Present
16011070445034	LASMA NAGESHI	Present	Present	Present	Present	Present
16011070445035	MAHAGAM RAJESHWAR	Present	Present	Present	Present	Present
16011070445036	MOHAMMED ARIF	Present	Present	Present	Present	Present
16011070445037	NAYINI LALITHA	Present	Present	Present	Present	Present
16011070445038	PATILAVATH CHANDRAKALA	Present	Present	Present	Present	Present
16011070445039	PERLA SREEKANTH	Present	Present	Present	Present	Present
16011070445040	RAMAVATHI HANUMANTHU	Present	Present	Present	Present	Present

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