**Let’sBeginLearningSQL.**

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**SQLwithsampleDDLandDMLcommands(MYSQL8.X)**

ToimproveSQLskills,onewayistoinstallaSQLpackagelike MySQL and start practicing with it. To give you all apositive push, I’ve outlined a few SQL query questions inthismaterial.

I have selected a set of 30 SQL queries that you can use tostep up you’re learning. I also given SQL scripts to createthetestdata.So,youcanusethemtocreateatestdatabaseandtables.

IhavebeencoveringmostoftheSQLqueryquestions.

PrepareSampleDatatoPracticeSQLSkill.

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SampleTable→Employee

EMPLOYEE\_IDFIRST\_NAMELAST\_NAMESALARYJOINING\_DATEDEPARTMENT

001MonikaArora1000002014–02–2009:00:00HR

002NiharikaVerma800002014–06–1109:00:00Admin

003VishalSinghal3000002014–02–2009:00:00HR

004AmitabhSingh5000002014–02–2009:00:00Admin

005VivekBhati5000002014–06–1109:00:00Admin

006VipulDiwan2000002014–06–1109:00:00Account

007SatishKumar750002014–01–2009:00:00Account

008GeetikaChauhan900002014–04–1109:00:00AdminSampleTable →Bonus

EMPLOYEE\_REF\_IDBONUS\_DATEBONUS\_AMOUNT12016–02–2000:00:005000

22016–06–1100:00:003000

32016–02–2000:00:004000

12016–02–2000:00:004500

22016–06–1100:00:003500

Sample Table →TitleEMPLOYEE\_REF\_ID EMPLOYEE\_TITLEAFFECTED\_FROM

1Manager2016–02–2000:00:00

2Executive2016–06–1100:00:00

8Executive2016–06–1100:00:00

5Manager2016–06–1100:00:00

4Asst.Manager2016–06–1100:00:00

7Executive2016–06–1100:00:00

6Lead2016–06–1100:00:00

3Lead2016–06–1100:00:00

To prepare the sample data, you can run the followingqueries in your database query executor or on the SQLcommandline.I’vetestedthemwithMySQLServer5.7.

SQLScripttoSeedSampleData.

====================CREATE DATABASE ORG;SHOWDATABASES;

USEORG;

OnceaboveSQLwouldrun,you’llseearesultsimilartotheoneattachedbelow.

Q-1.WriteanSQLquerytofetch“FIRST\_NAME”from

Employeetableusingthealiasnameas

<EMPLOYEE\_NAME>.

Ans. *select First\_Name as Ename from Employee;*

Q-2.*WriteanSQLquerytofetch“FIRST\_NAME”from*

EMPLOYEEtableinuppercase.Ans. *Select upper(“First\_Name”) from Employee ;*

Q-3.WriteanSQLquerytofetchuniquevaluesofDEPARTMENTfromEMPLOYEEtable.

Ans. Select distinct Department from Employee;

Therequiredqueryis: *Select distinct Department fro Employee;*

Q-4.WriteanSQLquerytoprintthefirstthreecharactersofFIRST\_NAMEfromEMPLOYEEtable.

Ans.

Therequiredqueryis: *select substring(First\_Name,1,3) fro Employee;*

Q-5.WriteanSQLquerytofindthepositionofthe

alphabet(‘a’)inthefirstnamecolumn‘Amitabh’from

EMPLOYEEtable.Ans.

Therequiredqueryis: *select INSTR(First\_Name, Binary ‘a’) from Employee where First\_Name = ‘Amitabh’;*

Q-6.WriteanSQLquerytoprinttheFIRST\_NAMEfromEMPLOYEEtableafterremovingwhitespacesfromthe

right side.Ans.

Therequiredqueryis: *select RTRIM(First\_Name)from Employee;*

Q-7.WriteanSQLquerytoprinttheDEPARTMENTfromEMPLOYEE table after removing white spaces from theleftside.

Ans.

Therequiredqueryis: *select LTRIM(Department) from Employee;*

Q-8.WriteanSQLquerythatfetchestheuniquevaluesofDEPARTMENT from EMPLOYEE table and prints itslength.

Ans.

Therequiredqueryis: *select distinct length(Department) fro Employee;*

Q-9.WriteanSQLquerytoprinttheFIRST\_NAMEfrom

EMPLOYEEtableafterreplacing‘a’with‘A’.

Ans.

Therequiredqueryis: *select Replace(First\_Name, ‘a’, ‘A’) from Employee;*

Q-10. Write an SQL query to print the FIRST\_NAME andLAST\_NAMEfromEMPLOYEEtableintoasinglecolumn

COMPLETE\_NAME.Aspacecharshouldseparatethem.Ans.

Therequiredqueryis: *select Contact(First\_Name, ‘ ’,Last\_Name) as ‘Complete\_Name’ from Employee*;

Q-11.WriteanSQLquerytoprintallEMPLOYEEdetailsfrom the EMPLOYEE table order by FIRST\_NAMEAscending.

Ans.

Therequiredqueryis: *select \* from Employee order by First\_Name asc;*

Q-12.WriteanSQLquerytoprintallEMPLOYEEdetailsfrom the EMPLOYEE table order by FIRST\_NAMEAscendingandDEPARTMENTDescending.

Ans.

Therequiredqueryis: *select \* from Employee order by First\_Name asc, Department desc;*

Q-13.WriteanSQLquerytoprintdetailsforEMPLOYEEswith the first name as “Vipul” and “Satish” fromEMPLOYEEtable.

Ans.

Therequiredqueryis: *select \* from Employee where First\_Name in (‘Vipul’, ‘Satish’);*

Q-14.WriteanSQLquerytoprintdetailsofEMPLOYEEsexcluding first names, “Vipul” and “Satish” fromEMPLOYEEtable.

Ans.

Therequiredqueryis: *select \* fro Employee where First\_Name not in (‘Vipul’, ‘Satish’);*

Q-15.WriteanSQLquerytoprintdetailsofEMPLOYEEs

withDEPARTMENTnameas“Admin”.

Ans.

Therequiredqueryis: *select* *\* from Employee where Department like ‘Admin%’;*

Q-16.WriteanSQLquerytoprintdetailsoftheEMPLOYEEswhoseFIRST\_NAMEcontains‘a’.Ans.

Therequiredqueryis: *select \* from Employee where First\_Name like ‘%a%’;*

Q-17. Write an SQL query to print details of theEMPLOYEEswhoseFIRST\_NAMEendswith‘a’.Ans.

Therequiredqueryis: *select \* from Employee where First\_Name like ‘%a’;*

Q-18. Write an SQL query to print details of theEMPLOYEEswhoseFIRST\_NAMEendswith‘h’andcontainssixalphabets.

Ans.

Therequiredqueryis: *select \* from Employee where First\_Name like ‘\_\_\_\_h’;*

Q-19. Write an SQL query to print details of theEMPLOYEEswhoseSALARYliesbetween100000and500000.

Ans.

Therequiredqueryis: *select \* from Employee where ESalary between 100000 and 500000;*

Q-20.WriteanSQLquerytoprintdetailsofthe

EMPLOYEEswhohavejoinedinFeb’2014.

Ans.

Therequiredqueryis: *select \* from Employee where year(EJoining\_Date) = 2014 and month(EJoining\_Date) = 2;*

Q-21.WriteanSQLquerytofetchthecountofemployees

workinginthedepartment‘Admin’.

Ans.

Therequiredqueryis: *select \* Count(\*) from Employee where EDepartment = ‘Admin’;*

Q-22.WriteanSQLquerytofetchEMPLOYEEnameswithsalaries>=50000and<=100000.

Ans.

Therequiredqueryis: *select Contact(First\_Name, ‘ ’, Last\_Name) as Employee\_Name, Salary from Employee where Eid in (select Eid from Employee where Esalary between 50000 and 100000);*

Q-23.WriteanSQLquerytofetchtheno.ofEMPLOYEEsforeachdepartmentinthedescendingorder.

Ans.

Therequiredqueryis: *select Edepartment, count(Worker\_id) No\_Of\_Workers from Employee Group By Edepartment Order By No\_Of\_Workers Desc;*

Q-24.WriteanSQLquerytoprintdetailsoftheEMPLOYEEswhoarealsoManagers.

Ans.

Therequiredqueryis: *select Distinct e.First\_Name, T.Worker\_Title from Employee Inner Join title T On e.Worker\_ID = T.Worker\_Ref\_Id And T.Worker\_Title in (‘Manager’);*

Q-25.WriteanSQLquerytofetchduplicaterecordshavingmatchingdatainsome fieldsofatable.

Ans.

Therequiredqueryis:

Ans.

Therequiredqueryis: *select Worker\_Title, Affected\_From, Count(\*) From title Group By Worker\_Title, Affected\_From Having Count(\*)>1;*

Q-27.WriteanSQLquerytoshowonlyevenrowsfromatable.

Ans.

Therequiredqueryis: *select \* from Employee Where MOD(Worker\_id, 2) = 0;*

Q-28.WriteanSQLquerytoshowthecurrentdateandtime.

Ans. *select Now();*

Q-29.WriteanSQLquerytoshowthetopn(say10)recordsofatable.

Ans. *select \* from Employee Order By Salary Desc Limit 10;*

Q-30.WriteanSQLquerytofetchthreemaxsalariesfromatable.

Ans.

Therequiredqueryis: *select \* from Employee Order By Salary Desc Limit 3;*