SQL Assignments

SQL

1. Write SQL script for creating following “Students” table in database

Field Name	Type	Size	
StudentId	LongInt		
Name	Varchar	100	
Address	Varchar	500	
City	int		FK (Cities)
Email	Varchar	100	
DateOfBirth	date		
RegnNumber	Char	5	Unique
Gender	int		

2. Write SQL query to insert following data into “Students” table.

StudentId	Name	Address	City	Email	DateOfBirth	RegnNumber	Gender	IsSuspended
1	John	31st street, opp fax home, ludwin	1	john@gmail.com	17-07-1976	194300	1	0
2	Abraham	sanfracis, ok mall	1	abraham@hotmail.com	18-08-1978	959595	1	0
3	Lucy	energy tech, lal mal	2	luchy@gmail.com	20-07-1980	474848	2	0
4	Manesh	106, opp mail office	2	manesh@yahoo.com	20-07-1980	595959	1	0
5	Jerin	Thoundaserry, mathilakam	3	jerin@gmail.com	17-07-1976	4844884	1	1

3. Write SQL script for creating following “Exam” table

Type		
ExamId	LongInt	
Name	Varchar	100
MaxMark	Decimal	(5,2)
MinMarkReqdForPass	Decimal	(5,2)
ExamScheduledTime	datetime	
Duration	Decimal	(5,2)

4. Write SQL script for inserting following data into Exam table

ExamId	Name	MaxMark	MinMarkReqdForPass	ExamScheduledTime	Duration
1	Maths	100	40	10-10-2012 10:00	90.00
2	English	75	35	11-10-2012 10:00	120.00
3	C++	100	40	12-10-2012 14:00	90.00
4	VB	75	35	13-10-2012 14:00	120.00

5. Write SQL script for creating following “StudentMarks”

Field	Type	Length	Constrain
StudentId	LongInt		FK (Students)
ExamId	LongInt		FK (Exams)
Mark	Decimal	(5,2)	
EnteredBy	int		FK (Users)

EnteredTime	Datetime		

6.Write SQL script for inserting data into StudentMarks table

StudentId	ExamId	Mark	EnteredBy	EnteredTime
1	1	80	1	current date time
2	1	90	1	current date time
3	1	40	1	current date time
4	1	35	1	current date time
5	1	85	1	current date time
1	2	70	1	current date time
2	2	60	1	current date time
3	2	17	1	current date time
4	2	45	1	current date time
5	2	20	1	current date time
1	3	95	1	current date time
2	3	90	1	current date time
3	3	30	1	current date time
4	3	35	2	current date time
1	4	60	2	current date time

2	4	20	2	current date time
3	4	50	2	current date time
4	4	50	2	current date time
5	4	60	2	current date time

7. Write SQL script for creating “Users” table

Field	Type	Length	
UserId	int		
Username	Varchar	15	
Password	Varchar	50	
Name	Varchar	100	

8. Write SQL script for inserting data in to Users table

UserId	Username	Password	Name
1	admin	prob#$124	Administrator
2	mark	lopus123	Mark Antony
3	smith	qerty5432	Smith John

9. Write SQL script for creating “Cities” table

Field	Type	Length	
CityId	int		
Name	Varchar	100	

10. Write SQL script for entering following data into Cities

CityId	Name
1	Kochin
2	Calicut
3	Trivandrum

11. Get all data in Students table
12. Get all data in Exam table
13. Get all data in StudentMarks
14. Get all data from users
15. Get all data from cities
16. Get all students with name starting in “J”
17. Get all student whose name ending in “J”
18. Get all students who got account in gmail
19. Get all students with their city
20. Get all Users whose name contains ‘John’
21. Get all student whose age is more than 33
22. Get all students with gender 1
23. Write SQL to get difference between gender 1 and gender 2
24. Get all students who born in 1976
25. Get all students who born on same day
26. Get all suspended students
27. Get a list of students with their marks in Maths
28. Get all students who got less than 50 marks in English
29. Get all students who failed in C++
30. Get all students who passed in VB
31. Get all students who passed in Maths and English
32. Get all students who failed either in C++ or VB
33. Get all students who passed in all subjects
34. Get all students who failed in all subjects

35. Get number of students who attended each exam
36. Get students who attended all exams
37. Get students who didn't attended all exams
38. Get all students and their total marks
39. Get all students and their average mark in C++
40. Get all students with Gender 1 and their average mark in Maths
41. Get all students with Gender 2 and their average mark in English
42. Get the exam for all students attended
43. Get all cities and total number of students from there.
44. Get all students who are not from Kochin
45. Get all users and number of records entered by each.
46. Get all students and their percentage of marks in Maths
47. Get all students and their percentage of marks in English is less than 60%
48. Get all students and their total marks
49. Get all students and their mark difference in maths and English
50. Get all records entered by user mark

Stored procedures

1. Create a stored procedure to list all students
2. Create a stored procedure which accept a student ID and return details of that student
3. Create a stored procedure which accept a student ID and return marks of that student
4. Create a stored procedure which accept an integer value and return list of students who got marks above than that value in maths
5. Create a stored procedure to insert following value into exam table; the stored procedure should insert one row at a time. You can call it multiple time from query window with different values

ExamId	Name	MaxMark	MinMarkReqdForPass	ExamScheduledTime	Duration
5	Economics	100	40	14-10-2012 10:00	90.00
6	Politics	75	35	15-10-2012 10:00	120.00
7	Asp.net	100	40	16-10-2012 14:00	90.00
8	C#	75	35	17-10-2012 14:00	120.00

6. Write a stored procedure to update below rows as specified.

ExamId	Name	MaxMark	MinMarkReqdForPass	ExamScheduledTime	Duration
5	Economics	100	50	14-10-2012 10:00	90.00
6	Politics	100	50	15-10-2012 10:00	120.00
7	Asp.net	75	40	16-10-2012 14:00	90.00
8	C#	75	40	17-10-2012 14:00	120.00

7. Write a stored procedure which will accept a studentID, ExamID and delete that record from studentmark table.
8. Write a stored procedure which will accept a studentID and print mark sheet.
9. Write a stored procedure which will print list of all students who passed in maths
10. Write a stored procedure which will get all students who passed in all exams
11. Write a stored procedure which will get list of students who failed in one subject
12. Write a stored procedure which will accept an exam id and print students who attended that exam.
13. Write a stored procedure which will accept a part of email id and print all students whose email ids match with it.
14. Write a stored procedure which will accept a part of name and print all students which does not match with it.
15. Write a stored procedure which will accept a studentId and list average mark of that student.

Functions

1. Write a scalar function which will return the studentID of student who got highest mark in maths
2. Write a scalar function which will return the studentID of student who got lowest mark in English
3. Write a tabular return function which will return the details of student who got highest total mark
4. Write a tabular return function which will return the details of student who got lowest total mark.
5. Write a tabular return function which will return student name and their total marks.