Sister Nivedita University

Department of Computer Science and Engineering

DATABASE MANAGEMENT SYSTEM LAB

ASSIGNMENT 6

1. Create the following tables with appropriate constraints using SQL command.

Example:

A) Table Name: Worker

COLUMN NAME	DATA TYPE	DESCRIPTION
Worker_Id	Number(5)	Unique worker ID
First_Name	Varchar2(30)	Name of the worker
Last_Name	Varchar2(30)	Last Name of the worker
Salary	Number(7)	Salary paid to the worker.
Joining_Date	DateTime	Date of joining of workers
Department	Varchar2(6)	Type of the Department such as 'HR',' Admin', 'Account'.

CONSTRAINT:

a. Worker_Id – Primary Key, Auto Increment.
b. First_Name – NOT NULL
c. Department - 'HR',' Admin', 'Account'.

B) Table Name: Bonus

COLUMN NAME	DATA TYPE	DESCRIPTION
Worker_Ref_Id	Number(5)	Worker identification number
Bonus_Date	DateTime	Bonus Date of the Worker
Bonus_Amount	Number(7)	Bonus Amount of the Worker

CONSTRAINT:

a. Worker_Ref_Id – Foreign Key.
b. Bonus_Amount – Not Null

C) Table Name : Title

COLUMN NAME	DATA TYPE	DESCRIPTION
Worker_Ref_Id	Number(5)	Worker identification number
Worker_Title	Varchar2(30)	Worker Title used for post.
Affected_From	DateTime	Date of joining of workers

CONSTRAINT:

a. Worker_Ref_Id -Foreign Key.
b. Worker_Title – Not Null.
c. Worker_Title – 'Manager'/'Lead'/'Asst. Manager'/' Executive'.

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2. Insert the following data to the appropriate table using SQL command.

Example:

A) Table Name: Worker

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
2	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
3	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
4	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
6	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
7	Satish	Kumar	75000	2014-01-20 09:00:00	Account
8	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

B) Table Name: Bonus

WORKER_REF_ID	BONUS_DATE	BONUS_AMOUNT
1	2016-02-20 00:00:00	5000
2	2016-06-11 00:00:00	3000
3	2016-02-20 00:00:00	4000
1	2016-02-20 00:00:00	4500
2	2016-06-11 00:00:00	3500

C) Table Name: Title

WORKER_REF_ID	WORKER_TITLE	AFFECTED_FROM
1	Manager	2016-02-20 00:00:00
2	Executive	2016-06-11 00:00:00
8	Executive	2016-06-11 00:00:00
5	Manager	2016-06-11 00:00:00
4	Asst. Manager	2016-06-11 00:00:00
7	Executive	2016-06-11 00:00:00
6	Lead	2016-06-11 00:00:00
3	Lead	2016-06-11 00:00:00

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1. Write An SQL Query To Fetch “FIRST_NAME” From Worker Table Using The Alias Name WORKER_NAME.

2. Write An SQL Query To Fetch “FIRST_NAME” From Worker Table In Upper Case.

3. Write An SQL Query To Fetch Unique Values Of DEPARTMENT From Worker Table.

4. Write an SQL Query to Print the First Three Characters Of FIRST_NAME from Worker Table.

5. Write an SQL Query To Find The Position Of The Alphabet (‘A’) In The First Name Column ‘Amitabh’ From Worker Table.

6. Write An SQL Query To Print The FIRST_NAME From Worker Table After Removing White Spaces From The Right Side.

7. Write An SQL Query To Print The DEPARTMENT From Worker Table After Removing White Spaces From The Left Side.

8. Write An SQL Query That Fetches The Unique Values Of DEPARTMENT From Worker Table And Prints Its Length.

9. Write An SQL Query To Print The FIRST_NAME From Worker Table After Replacing ‘A’ With ‘A’.

10. Write An SQL Query To Print The FIRST_NAME And LAST_NAME From Worker Table Into A Single Column COMPLETE_NAME. A Space Char Should Separate Them.

11. Write An SQL Query To Print All Worker Details From The Worker Table Order By FIRST_NAME Ascending.

12. Write An SQL Query To Print All Worker Details From The Worker Table Order By FIRST_NAME Ascending And DEPARTMENT Descending.

13. Write An SQL Query To Print Details For Workers With The First Name As “Vipul” And “Satish” From Worker Table.

14. Write An SQL Query To Print Details Of Workers Excluding First Names, “Vipul” And “Satish” From Worker Table.

15. Write An SQL Query To Print Details Of Workers With DEPARTMENT Name As “Admin”.

16. Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Contains ‘A’.

17. Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Ends With ‘A’.

18. Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Ends With ‘H’ And Contains Six Alphabets.

19. Write An SQL Query To Print Details Of The Workers Whose SALARY Lies Between 100000 And 500000

20. Write An SQL Query To Print Details Of The Workers Who Have Joined In Feb'2014.

21. Write An SQL Query To Fetch The Count Of Employees Working In The Department 'Admin'

22. Write An SQL Query To Fetch Worker Names With Salaries >= 50000 And <= 100000.

23. Write An SQL Query To Fetch The No. Of Workers for Each Department In The Descending Order.

24. Write An SQL Query To Print Details Of The Workers Who Are Also Managers.

25. Write An SQL Query To Fetch Duplicate Records Having Matching Data In Some Fields Of A Table.

26. Write An SQL Query To Show Only Odd Rows From worker Table.

27. Write An SQL Query To Show Only Even Rows From worker Table.

28. Write An SQL Query To Clone New_Worker Table From Worker Table.

29. Write An SQL Query To Fetch Intersecting Records Of Worker and New_Worker Tables.

30. Write An SQL Query To Show Records From Worker table That Title Table Does Not Have.

31. Write An SQL Query To Show The Current Date And Time.

32. Write An SQL Query To Show The Top N (Say 5) Records Of Worker Table.

33. Write An SQL Query To Determine The Nth (Say 3) Highest Salary From Worker Table.

34. Write An SQL Query To Determine The 5th Highest Salary Without Using TOP Or Limit Method from Worker Table.

35. Write An SQL Query To Fetch The List Of Employees With The Same Salary from Worker Table.

36. Write An SQL Query To Show The Second Highest Salary From Worker Table.

37. Write An SQL Query To Show One Row Twice In Results From Worker Table.

38. Write An SQL Query To Fetch Intersecting Records Of Worker and New_Worker Tables.

39. Write An SQL Query To Fetch The First 50% Records From Worker Table.

40. Write An SQL Query To Fetch The Departments That Have Less Than Five People In It from Worker Table.

41. Write An SQL Query To Show All Departments Along With The Number Of People In There from Worker Table.

42. Write An SQL Query To Show The Last Record From Worker Table.

43. Write An SQL Query To Fetch The First Row Of Worker Table.

44. Write An SQL Query To Fetch The Last Five Records From Worker Table.

45. Write An SQL Query To Print The Name Of Employees Having The Highest Salary In Each Department from Worker Table.

46. Write An SQL Query To Fetch Three Max Salaries From Worker Table.

47. Write An SQL Query To Fetch Three Min Salaries From Worker Table.

48. Write An SQL Query To Fetch Nth Max Salaries From Worker Table.

49. Write An SQL Query To Fetch Departments Along With The Total Salaries Paid For Each Of Them from Worker Table.

50. Write An SQL Query To Fetch The Names Of Workers Who Earn The Highest Salary from Worker Table.