ASSESMENT -1 SQL

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SQL Script to Seed Sample Data.
CREATE DATABASE ORG1;
SHOW DATABASES;
USE ORG1;
CREATE TABLE Worker (
WORKER ID INT NOT NULL PRIMARY KEY AUTO INCREMENT,
FIRST_NAME CHAR(25),
LAST_NAME CHAR(25),
SALARY INT(15),
JOINING DATE DATETIME,
DEPARTMENT CHAR(25)
);
INSERT INTO Worker
(WORKER_ID, FIRST_NAME, LAST_NAME, SALARY, JOINING_DATE,
DEPARTMENT) VALUES
(001, 'Monika', 'Arora', 100000, '14-02-20
09.00.00', 'HR'),
(002, 'Niharika', 'Verma', 80000, '14-06-11
09.00.00', 'Admin'),
(003, 'Vishal', 'Singhal', 300000, '14-02-20
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09.00.00', 'HR'),
(004, 'Amitabh', 'Singh', 500000, '14-02-20
09.00.00', 'Admin'),
(005, 'Vivek', 'Bhati', 500000, '14-06-11
09.00.00', 'Admin'),
(006, 'Vipul', 'Diwan', 200000, '14-06-11
09.00.00', 'Account'),
(007, 'Satish', 'Kumar', 75000, '14-01-20
09.00.00', 'Account'),
(008, 'Geetika', 'Chauhan', 90000, '14-04-11
09.00.00', 'Admin');
CREATE TABLE Bonus (
WORKER REF ID INT,
BONUS AMOUNT INT(10),
BONUS DATE DATETIME,
FOREIGN KEY (WORKER_REF_ID)
REFERENCES Worker(WORKER ID)
ON DELETE CASCADE
);
INSERT INTO Bonus
(WORKER REF ID, BONUS AMOUNT, BONUS DATE) VALUES
(001, 5000, '16-02-20'),
(002, 3000, '16-06-11'),
(003, 4000, '16-02-20'),
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(001, 4500, '16-02-20'),
(002, 3500, '16-06-11');
CREATE TABLE Title (
WORKER_REF_ID INT,
WORKER TITLE CHAR(25),
AFFECTED_FROM DATETIME,
FOREIGN KEY (WORKER_REF_ID)
REFERENCES Worker(WORKER_ID)
ON DELETE CASCADE
);
INSERT INTO Title
(WORKER_REF_ID, WORKER_TITLE, AFFECTED_FROM) VALUES
(001, 'Manager', '2016-02-20 00:00:00'),
(002, 'Executive', '2016-06-11 00:00:00'),
(008, 'Executive', '2016-06-11 00:00:00'),
(005, 'Manager', '2016-06-11 00:00:00'),
(004, 'Asst. Manager', '2016-06-11 00:00:00'),
(007, 'Executive', '2016-06-11 00:00:00'),
(006, 'Lead', '2016-06-11 00:00:00'),
(003, 'Lead', '2016-06-11 00:00:00');
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QUESTIONS:-

Q-1. Write an SQL query to fetch "FIRST_NAME" from Worker table using the alias name as <WORKER NAME>.

SELECT FIRST NAME AS 'WORKER NAME'

FROM Worker;

Q-2. Write an SQL query to fetch "FIRST NAME" from Worker table in upper case.

SELECT UPPER(FIRST NAME)

FROM Worker;

Q-3. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

SELECT DISTINCT DEPARTMENT

FROM Worker;

Q-4. Write an SQL query to print the first three characters of FIRST NAME from Worker table.

SELECT LEFT(FIRST NAME, 3)

FROM Worker;

Q-5. Write an SQL query to find the position of the alphabet ('a') in the first name column 'Amitabh' from Worker table.

SELECT INSTR(FIRST_NAME, 'a')

FROM Worker

WHERE FIRST NAME = 'Amitabh';

Q-6. Write an SQL query to print the FIRST_NAME from Worker table after removing white spaces from the right side.

SELECT RTRIM(FIRST_NAME)

FROM Worker;

Q-7. Write an SQL query to print the DEPARTMENT from Worker table after removing white spaces from the left side.

SELECT LTRIM(DEPARTMENT)

FROM Worker;

Q-8. Write an SQL query that fetches the unique values of DEPARTMENT from Worker table and prints its length.

SELECT DISTINCT DEPARTMENT, LENGTH(DEPARTMENT) AS DeptLength

FROM Worker;

Q-9. Write an SQL query to print the FIRST_NAME from Worker table after replacing 'a' with 'A'.

SELECT REPLACE(FIRST_NAME, 'a', 'A')

FROM Worker;

Q-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.

SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS COMPLETE_NAME

FROM Worker;

Q-11. Write an SQL query to print all Worker details from the Worker table order by FIRST NAME Ascending.

SELECT *

FROM Worker

ORDER BY FIRST_NAME ASC;

Q-12. Write an SQL query to print all Worker details from the Worker table order by FIRST NAME Ascending and DEPARTMENT Descending.

SELECT *

FROM Worker

ORDER BY FIRST NAME ASC, DEPARTMENT DESC;

Q-13. Write an SQL query to print details for Workers with the first name as "Vipul" and "Satish" from Worker table.

SELECT *

FROM Worker

WHERE FIRST NAME IN ('Vipul', 'Satish');

Q-14. Write an SQL query to print details of workers excluding first names, "Vipul" and "Satish" from Worker table.

SELECT *

FROM Worker

WHERE FIRST_NAME NOT IN ('Vipul', 'Satish');

Q-15. Write an SQL query to print details of Workers with DEPARTMENT name as "Admin".

SELECT *

FROM Worker

WHERE DEPARTMENT = 'Admin';

Q-16. Write an SQL query to print details of the Workers whose FIRST_NAME contains 'a'.

SELECT *

FROM Worker

WHERE FIRST_NAME LIKE '%a%';

Q-17. Write an SQL query to print details of the Workers whose FIRST_NAME ends with 'a'.

SELECT *

FROM Worker WHERE FIRST NAME LIKE '%a'; Q-18. Write an SQL query to print details of the Workers whose FIRST_NAME ends with 'h' and contains six alphabets. **SELECT** * FROM Worker WHERE FIRST NAME LIKE 'h'; Q-19. Write an SQL query to print details of the Workers whose SALARY lies between 100000 and 500000. **SELECT** * FROM Worker WHERE SALARY BETWEEN 100000 AND 500000; Q-20. Write an SQL guery to print details of the Workers who have joined in Feb'2014. **SELECT** * FROM Worker WHERE JOINING_DATE BETWEEN '2014-02-01' AND '2014-02-28 23:59:59'; Q-21. Write an SQL query to fetch the count of employees working in the department 'Admin'. SELECT COUNT(*) AS AdminCount

FROM Worker

WHERE DEPARTMENT = 'Admin';

Q-22. Write an SQL query to fetch worker names with salaries >= 50000 and <= 100000.

SELECT FIRST_NAME, LAST_NAME

FROM Worker

WHERE SALARY BETWEEN 50000 AND 100000;

Q-23. Write an SQL query to fetch the no. of workers for each department in the descending order.

SELECT DEPARTMENT, COUNT(*) AS NumberOfWorkers

FROM Worker

GROUP BY DEPARTMENT

ORDER BY NumberOfWorkers DESC;

Q-24. Write an SQL query to print details of the Workers who are also Managers.

SELECT w.*

FROM Worker w

JOIN Title t ON w.WORKER_ID = t.WORKER_REF_ID

WHERE t.WORKER TITLE = 'Manager';

Q-25. Write an SQL query to fetch duplicate records having matching data in some fields of a table.

SELECT FIRST_NAME, LAST_NAME, COUNT(*)

FROM Worker

GROUP BY FIRST_NAME, LAST_NAME

HAVING COUNT(*) > 1;

Q-26. Write an SQL query to show only odd rows from a table.

SELECT *

FROM Worker

WHERE MOD(WORKER_ID, 2) = 1;