

National University of Computer & Emerging Sciences, Karachi Computer Science Department Fall 2021, Lab Manual – 03 Task



Course Code: CL-2005	Course: Database Systems Lab
Instructor(s):	Muhammad Nadeem, Amin Sadiq, Erum,
	Fizza, Mafaza, Ali Fatmi

Lab#03 TASKS:

- Create a new user using SQL command Line and grant privileges. We are using this
 user to create our own database with related tables, which we are working on in
 lab#03.
- 2. Create table Jobs and job_History same fields as given in HR Schema in which job_ID is considered as primary key in jobs table.
- 3. Change the data type of 'job_ID' from character to numeric in Jobs table.(Like IT_Prog->101)
- 4. Write a SQL statement to add job_id column in job_history table as foreign key referencing to the primary key job_id of jobs table.
- <u>5.</u>
- 6. Insert a new row in jobs table having all the attributes
- 7. Insert a new row in job_History table having all the attributes
- 8. Add Column Job_Nature in Jobs table.
- 9. Create replica of employee table.
- 10. Drop column Job_Nature.
- 11. ALTER table EMPLOYEE created in question 5 and apply the constraint CHECK on First_Name attribute such that ENAME should always be inserted in capital letters.
- 12. ALTER table EMPLOYEE created in question 2 and apply the constraint on Salary attribute such that no two salaries of the employees should be similar. (Hint Unique)
- 13. ALTER table Employee created in question 5 and apply constraint on Phone_No such that Phone_No should not be entered empty (Hint modify).
- 14. Write a SQL statement to insert one row into the table employees.
- 15. Write a SQL statement to change the salary of employee to 8000 who's ID is 105, if the existing salary is less than 5000.
- 16. Write a SQL statement to change job ID of employee whose ID is 118, to SH_CLERK if the employee belongs to department, which ID is 30 and the existing job ID does not start with SH.
- 17. Write a SQL statement to add a primary key for a combination of columns employee_id and job_id in employees table.