MEGHNAD SAHA INSTITUTE OF TECHNOLOGY

*Techno Complex, Madurdaha,Beside NRI Complex, Post-Uchhepota, Kolkata 700 150*

LABORATORY NOTE BOOK

MAKAUT ODD SEMESTER 2024



[MASTERS OF COMPUTER APPLICATION]

[RELATIONAL DATABASE MANAGEMENT SYSTEM LAB (MCAN192)]

[RUPAK SARKAR]

ROLL NO: REGN. NO.:

STREAM: MCA SEMESTER: I (1ST)

YEAR: 1ST YearSESSION: 2024-2026



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY



MEGHNAD SAHA INSTITUTE OF TECHNOLOGY

*Techno Complex,. Madurdaha,Beside NRI Complex, Post-Uchhepota, Kolkata 700 150*

“LIST OF ASSIGNMENT/EXPERIMENT SUBMISSION DETAILS”

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| --- | --- | --- | --- | --- | --- |
| **SL.**  **NO.** | **ASSIGNMENT / EXPERIMENT NAME** | **PLANNED DATE OF SUBMISSION** | **ACTUAL DATE OF SUBMISION** | **CHECKED BY** | **REMARKS (ANY DEVIATION REGARDING SUBMISSION DATES, CONTENT, FORMAT, ETC)** |
| 1. | Create a table with name EMPLOYEE. | 07/11/2024 | 11/11/2024 |  |  |
| 2. | Add new column HIREDATE. | 07/11/2024 | 11/11/2024 |  |  |
| 3. | Change datatype of Job\_id to varchar2. | 07/11/2024 | 11/11/2024 |  |  |
| 4. | Change the name of Emp\_no to E\_no. | 07/11/2024 | 11/11/2024 |  |  |
| 5. | Modify column width of job field of EMP table. | 07/11/2024 | 11/11/2024 |  |  |
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| OBSERVATIONS / COMMENTS ON THE OVERALL PERFORMANCE: |

Signature in full with date Signature in full with date

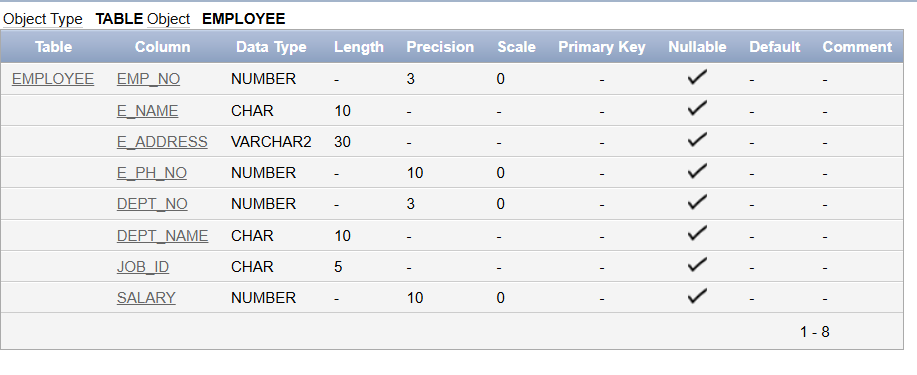
**Faculty / Technical Assistant Lab Examiner**

**Q.1 Create a table EMPLOYEE with following schema:**

**(Emp\_no, E\_name, E\_address, E\_ph\_no, Dept\_no, Dept\_name, Job\_id, Salary)**

Ans: To create a Table named EMPLOYEE with the given attributes, we write the following command –

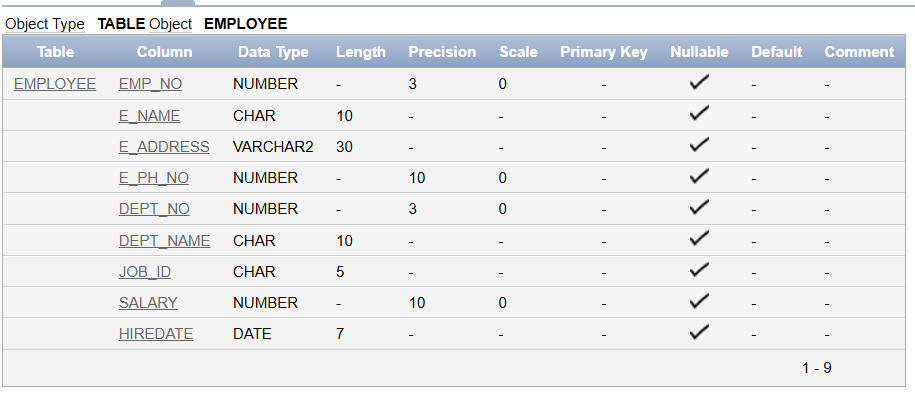
**SQL Query –** CREATE TABLE EMPLOYEE(EMP\_NO NUMBER(3), E\_NAME CHAR(10), E\_ADDRESS VARCHAR2(30), E\_PH\_NO NUMBER(10), DEPT\_NO NUMBER(3), DEPT\_NAME CHAR(10), JOB\_ID CHAR(5), SALARY NUMBER(10));



**Q.2 Add a new column HIREDATE to the existing relation.**

Ans: To add a new column names HIREDATE to the schema we write the following command.

**SQL Query –** ALTER TABLE EMPLOYEE ADD(HIREDATE DATE);

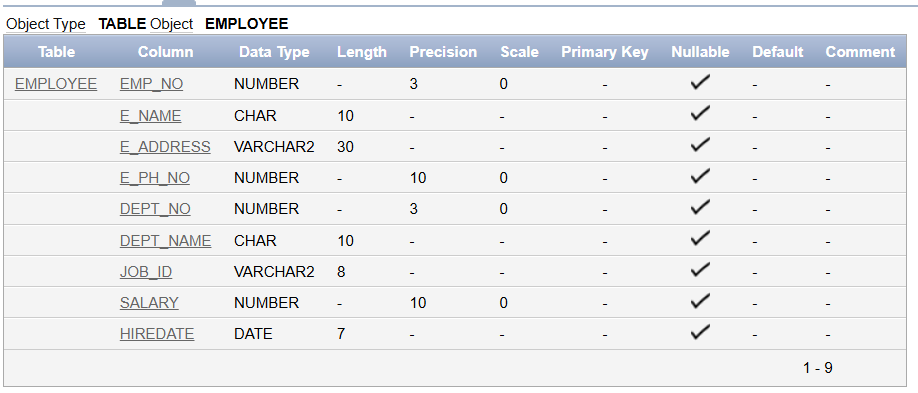
  
In the above screenshot, we can see that the column named HIREDATE has been added as the last column of the table.

**Q.3 Change the datatype of Job\_id from char to varchar2.**

Ans: To change the datatype of a column from char to varchar2, we write the following query.

**SQL Query –** ALTER TABLE EMPLOYEE MODIFY(JOB\_ID VARCHAR2(8));

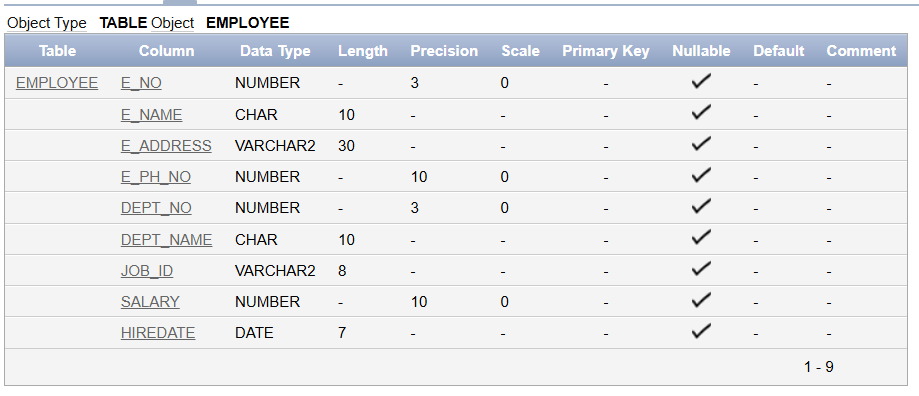
This query changes the datatype of Job\_id from char to varchar2.



**Q.4 Change the name of column/field Emp\_no to E\_no.**

Ans: To change the name of a column or field in a database table, we need to write the following query.

**SQL Query –** ALTER TABLE EMPLOYEE RENAME COLUMN EMP\_NO TO E\_NO;

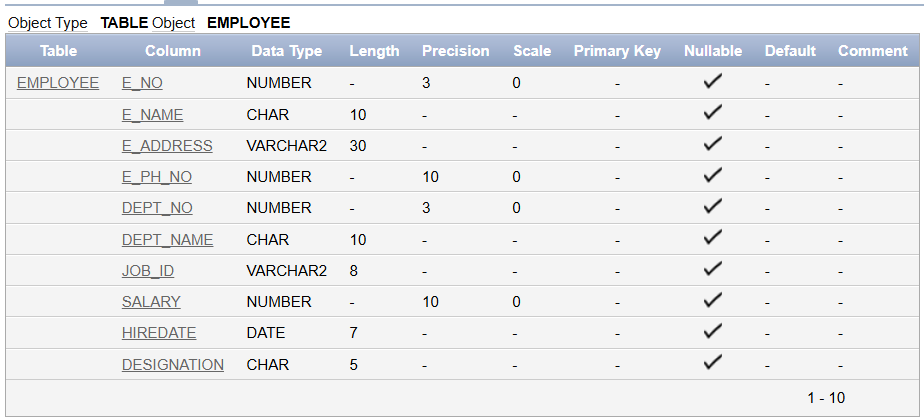


In the above screenshot, we can see that the column name of Emp\_no has been changed to E\_no.

**Q.5 Modify the column width of the job field of the EMPLOYEE table.**

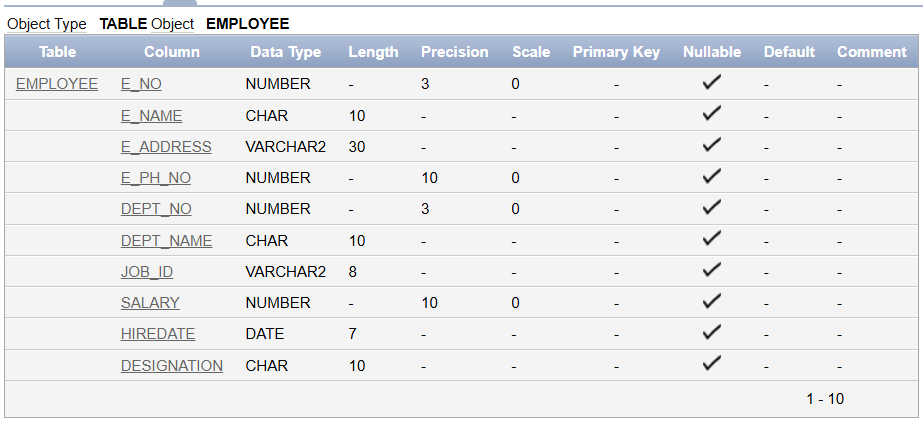
Ans: For this question, we have added a new field in the database table in the name of Designation and we will then change the column width of this field.

**SQL Query for Designation column –** ALTER TABLE EMPLOYEE ADD(DESIGNATION CHAR(5));



Now, we will change the column width of the Designation field of the table.

**SQL Query –** ALTER TABLE EMPLOYEE MODIFY(DESIGNATION CHAR(10));



In the above screenshot, the width of Designation has been changed from char(5) to char(10).