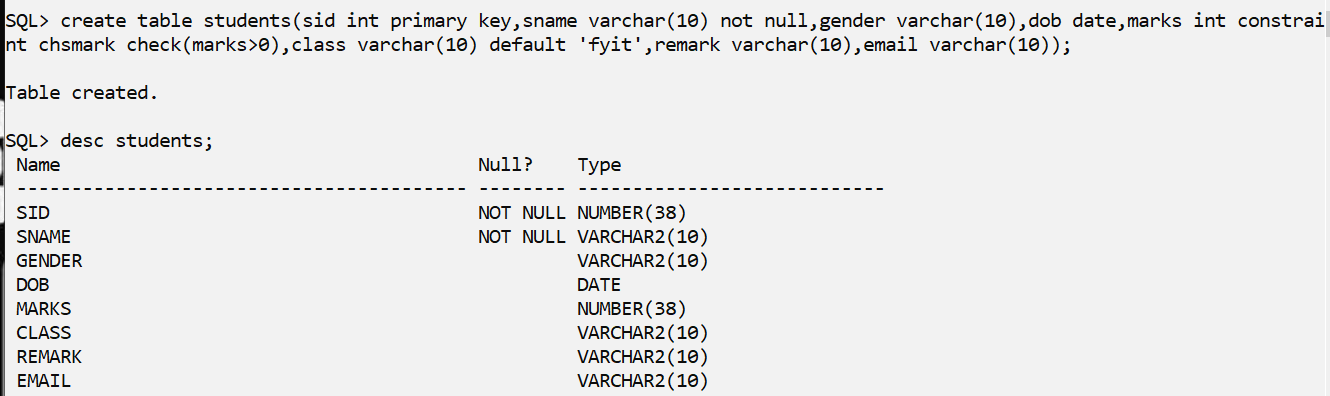
**Practical 1: Study of Data Definition Language Statement**

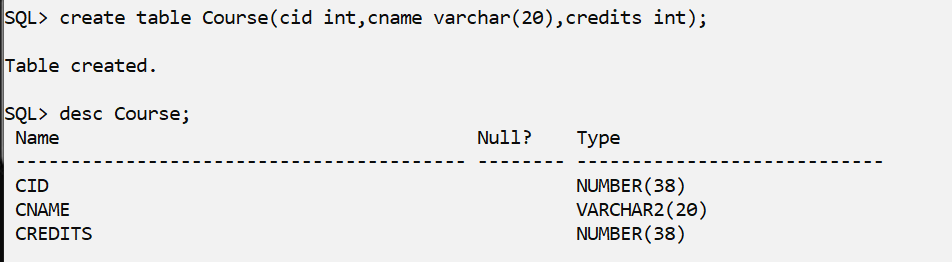
**A) Write the query for the following**

**1) Create the following tables and include the necessary constraints NOT NULL, DEFAULT, CHECK, PRIMARY KEY, UNIQUE.**

a) Student (sid, sname, gender, dob, remark, marks, class, email)

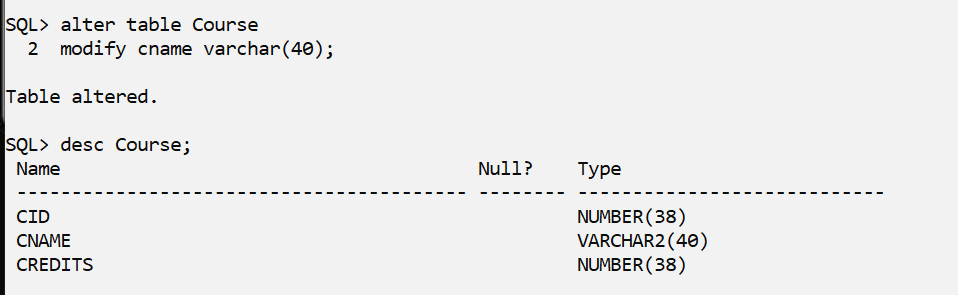


b) Course (cid, cname, credits)

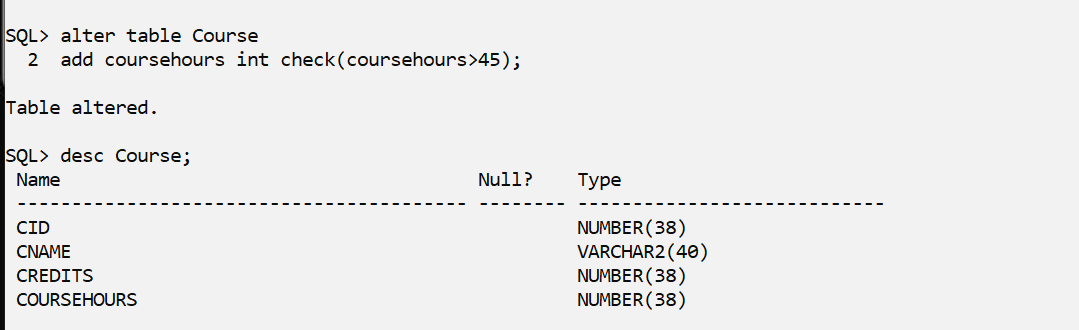


**2) Alter the structure of the Course table**

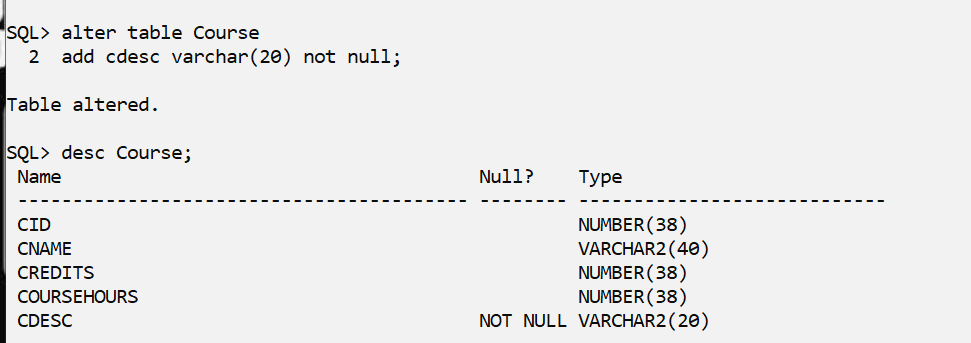
a) Modify datatype of cname.



b) Add a column coursehours with minimum course hours greater than 45.

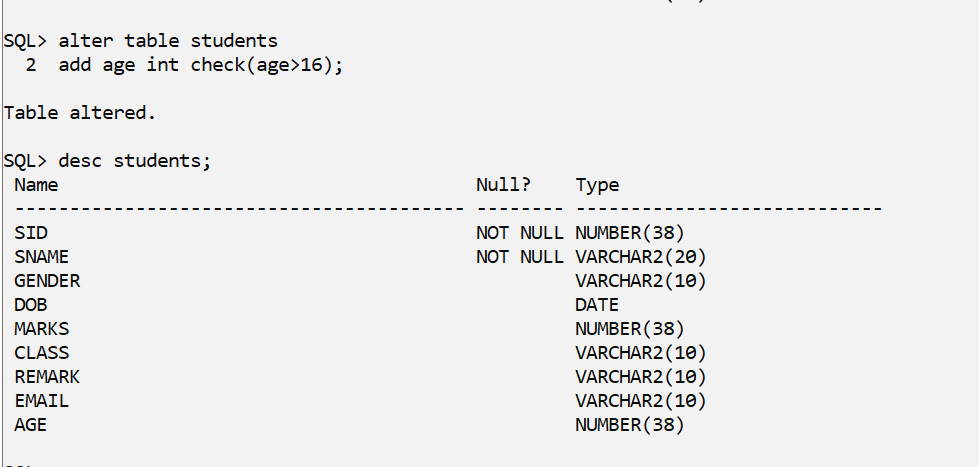


c) Add a column cdesc

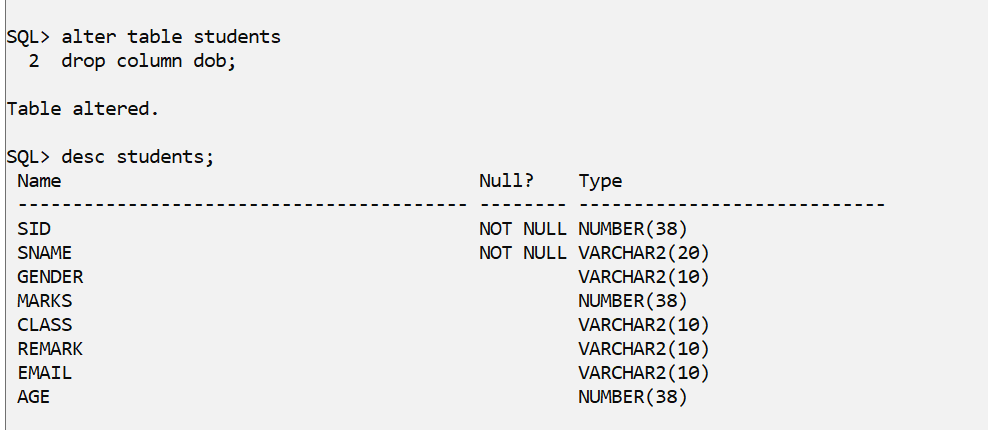


**3) Alter the structure of Student Table**

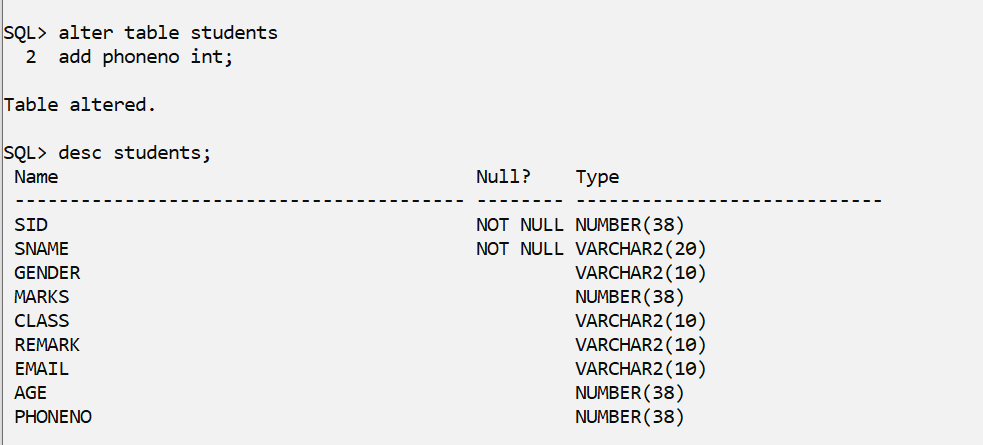
a) Add column age with minimum age as 17.



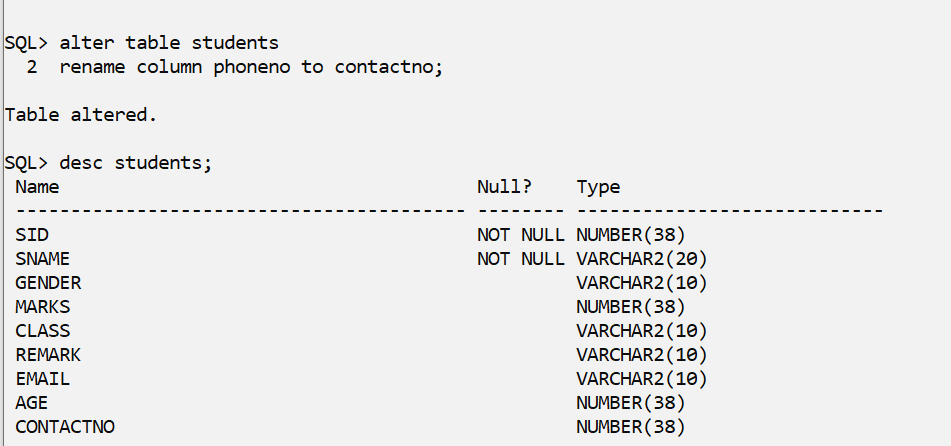
b) Delete the column dob



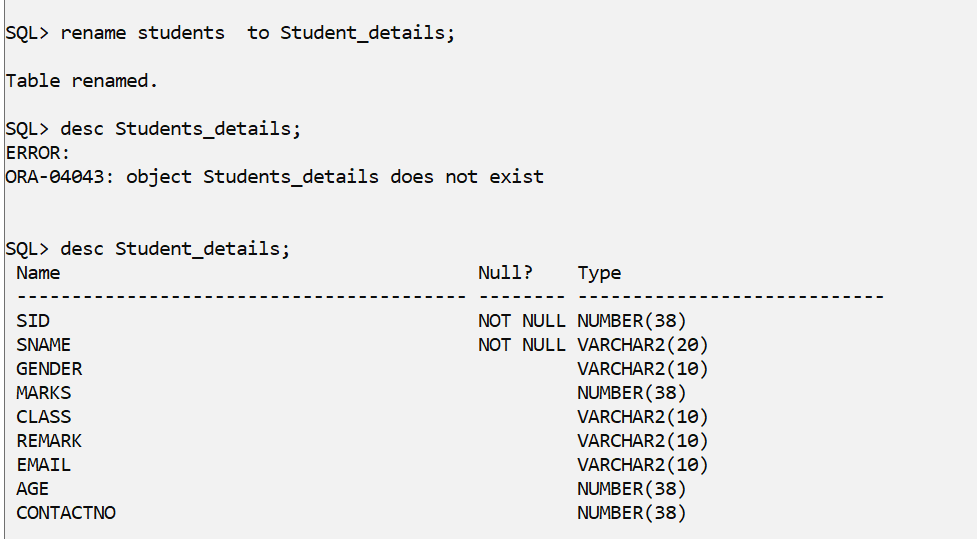
c) Add a column phoneno.



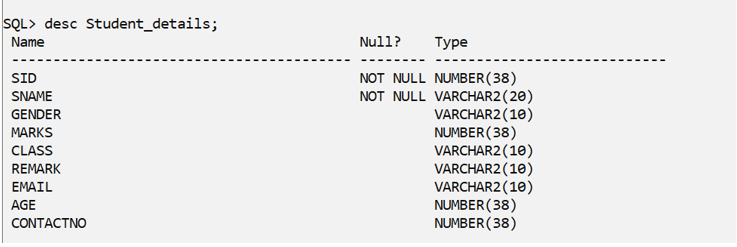
d) Rename phoneno to contactno

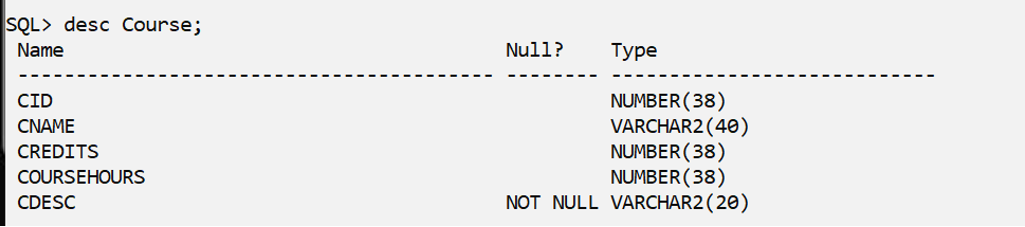


**4) Rename Student table as Student\_details**.

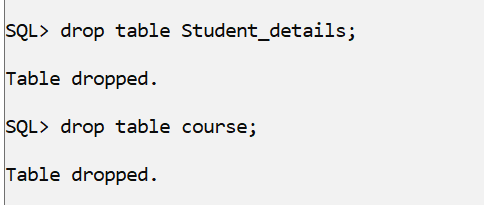


**5) Describe the structure of both the tables.**

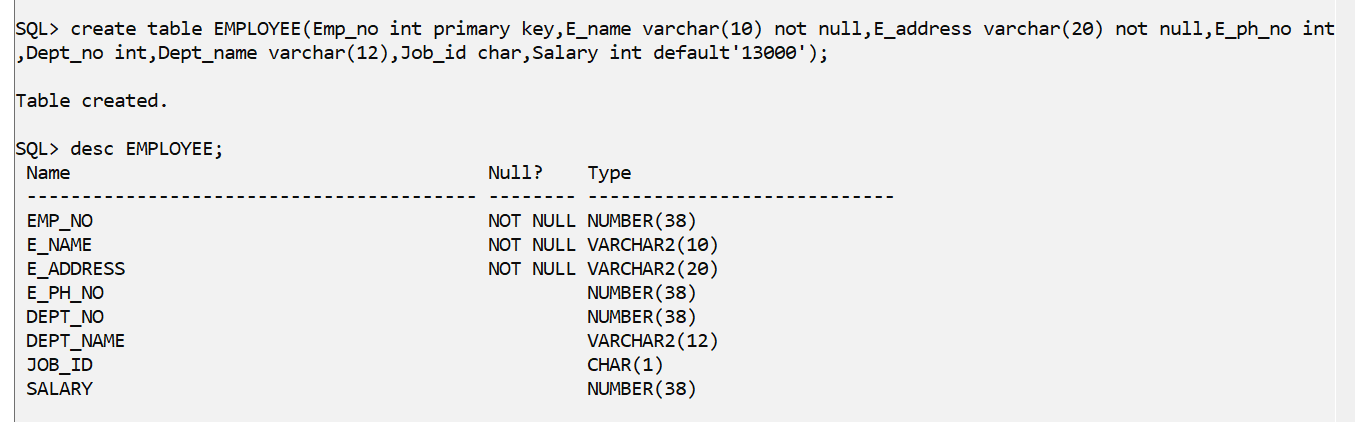
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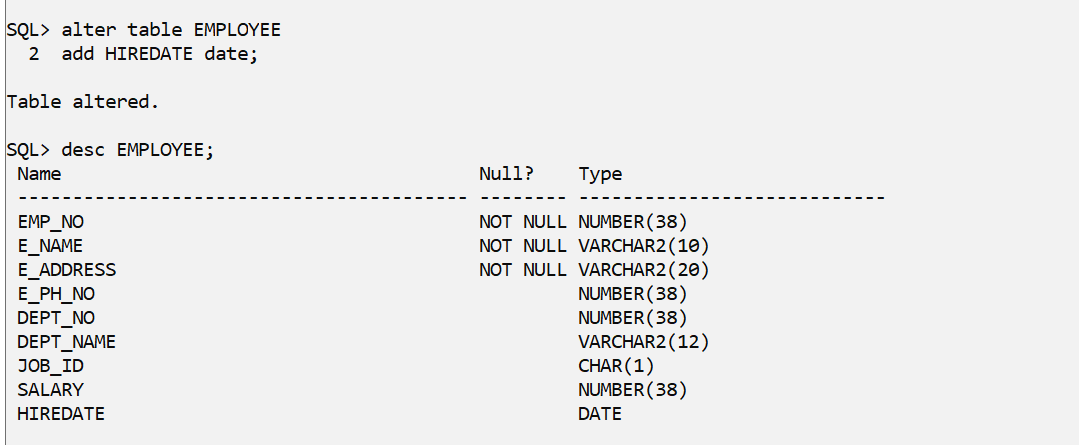
**6) Drop the table student\_details and Course.**

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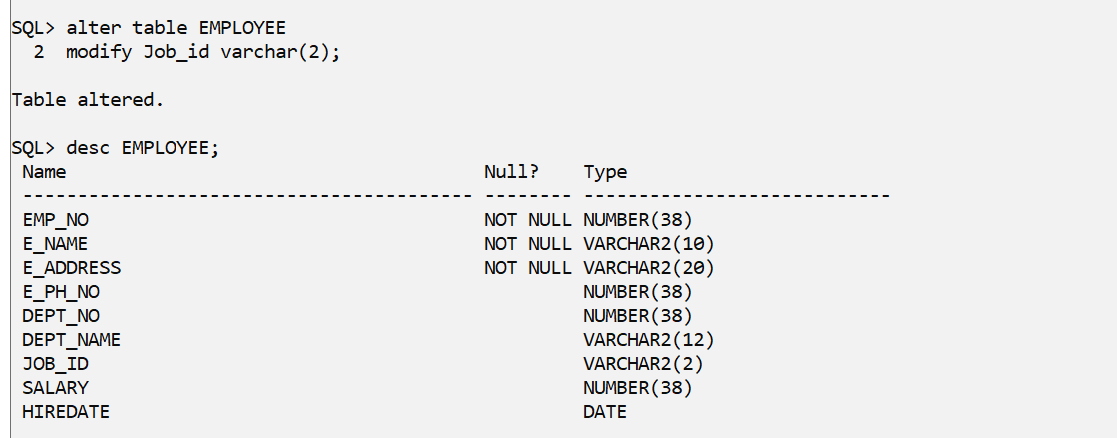
**B)** 1. Create a table EMPLOYEE with following attributes and specific data types and constraints required (Emp\_no, E\_name, E\_address, E\_ph\_no, Dept\_no, Dept\_name, Job\_id, Salary)



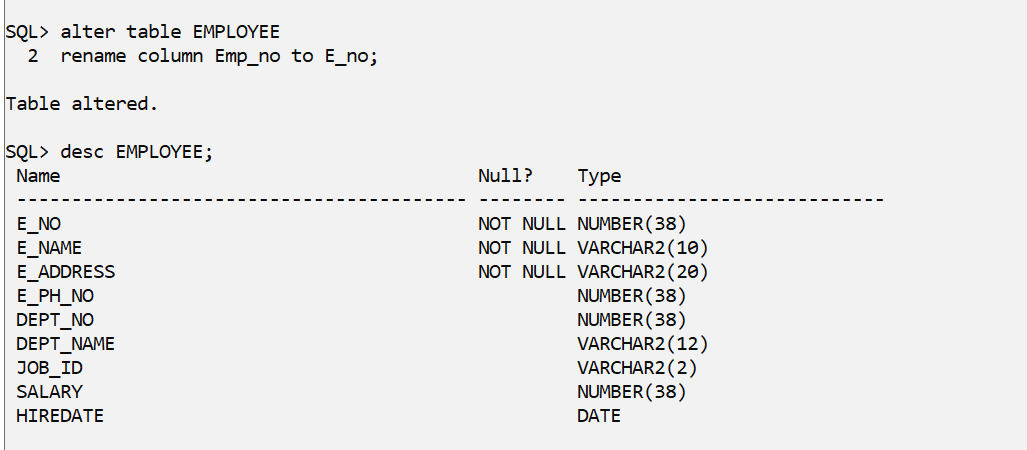
2. Add a new column HIREDATE to the existing relation.



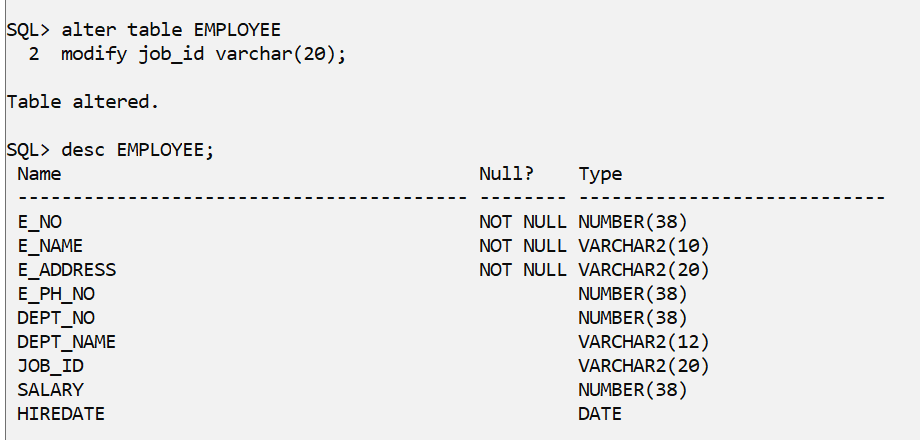
3. Change the datatype of JOB\_ID from char to varchar2.



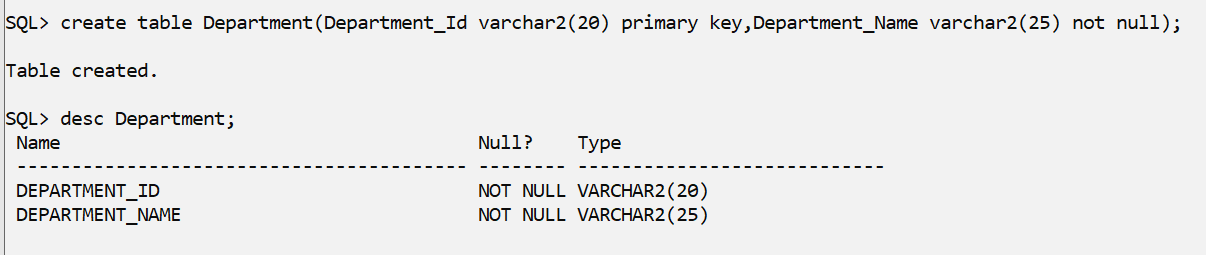
4. Change the name of column/field Emp\_no to E\_no.



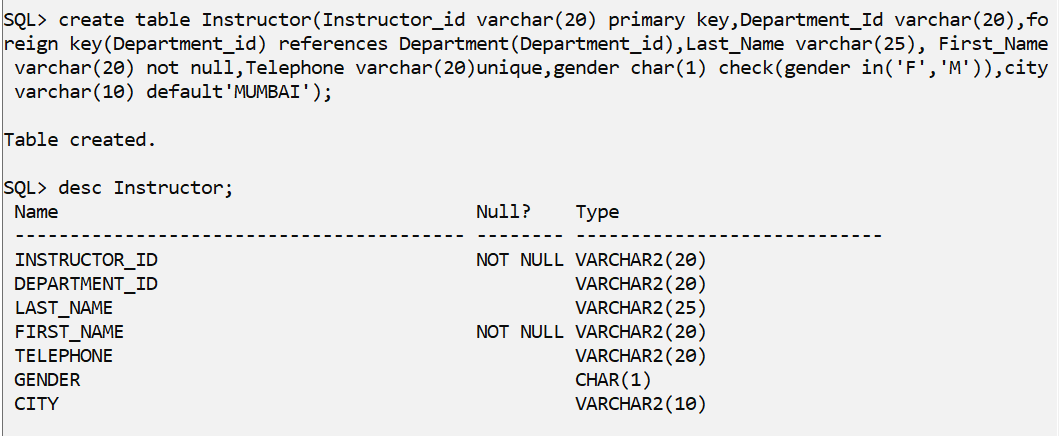
5. Modify the column width of the job field of emp table.



**C) Create the following tables with specified attributes and constraints Department Table:** Department\_Id varchar2(20) primarykey, Department\_Name varchar2(25) with required data**.**

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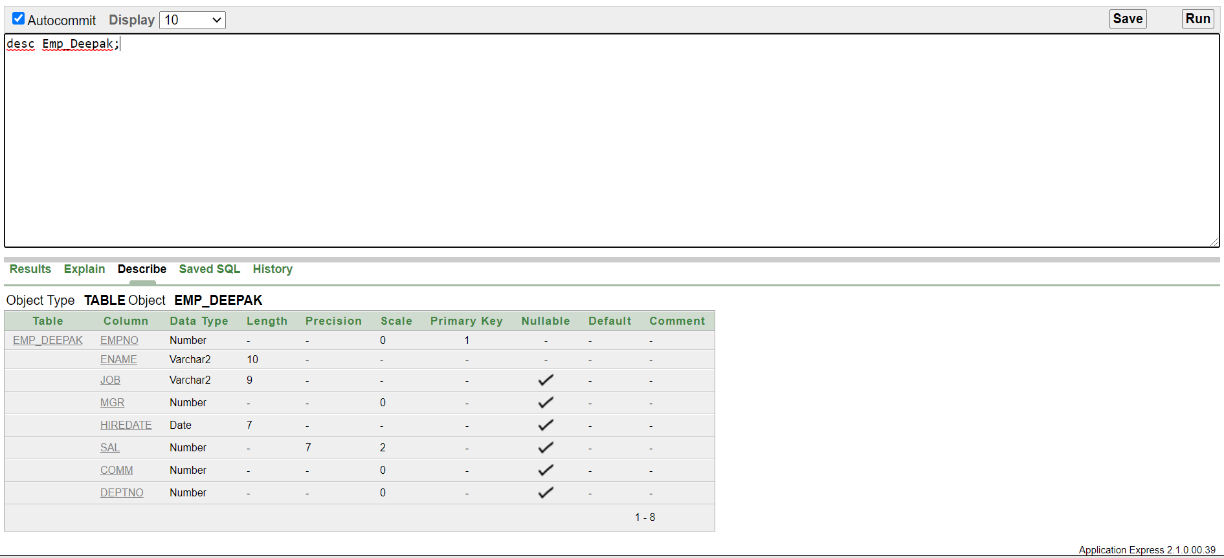
Instructor Table: Instructor\_id varchar2(20) primary key, Department\_Id varchar2(20) Foreign key, Last\_Name varchar2(25), First\_Name varchar2(200) must have value, Telephone varchar2(20) must be unique, gender char(1) must be either ‘F’or ‘M’,city varchar(10) default value must be ‘MUMBAI’.



**D)Create the following described below:**

Table Name: EMP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Length | Precision | Scale | Primary Key | Nullable |
| EMPNO | Int | - | - | - | **Yes** | **-** |
| ENAME | Varchar2 | 10 | - | - | **-** | **No** |
| JOB | Varchar2 | 9 | - | - | **-** |  |
| MGR | Int | - | - | - | **-** |  |
| HIREDATE | Date | - | - | - | **-** |  |
| SAL | Number | - | 7 | 2 | **-** |  |
| COMM | Int | - | - | - | **-** |  |
| DEPTNO | Int | - | - | - | **-** |  |



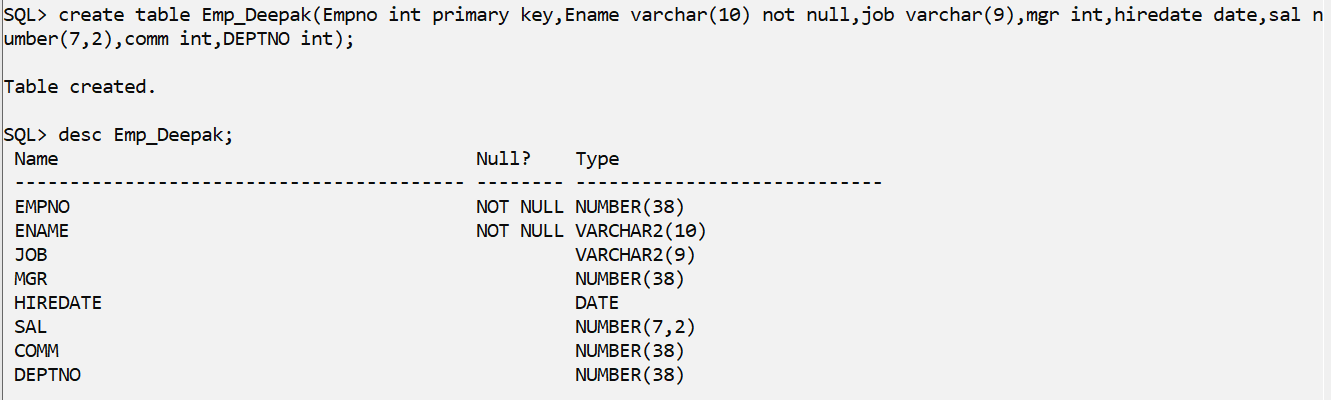


Table Name: DEPT

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Length | Precision | Scale | Primary Key | Nullable |
| DEPTNO | Int | - | - | - | **Yes** | **-** |
| DNAME | Varchar2 | 14 | - | - | **-** | **No** |
| LOC | Varchar2 | 13 | - | - | **-** |  |

