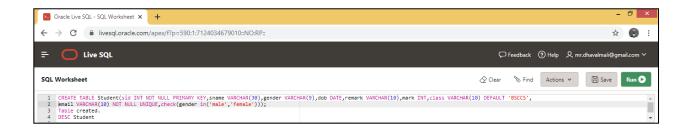
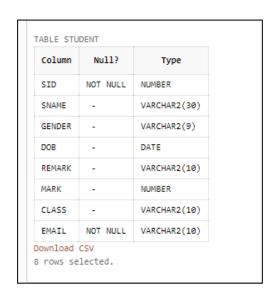
Practical 1: Study of Data Definition Language Statement

- 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)

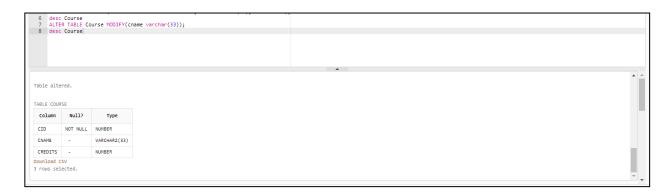
```
Elive SQL

SQL Worksheet

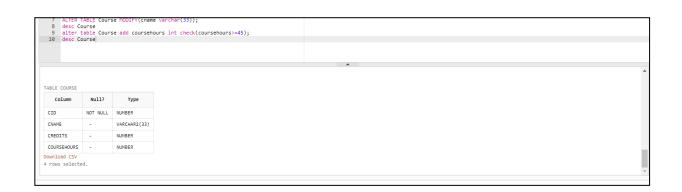
☐ CREATE TABLE Student(sid INT NOT NULL PRIMARY KEY, sname VARCHAR(30), gender VARCHAR(9), dob DATE, remark VARCHAR(10), mark INT, class VARCHAR(10) DEFAULT '8SCCS',
2 email VARCHAR(10) NOT NULL UNIQUE, check(gender in('male', 'female')));
3 Table created.
4 DESC Student
5 CREATE TABLE Course(cid INT NOT NULL PRIMARY KEY, cname VARCHAR(20), credits INT);
6 desc Course
7
```

	Column	Null?	Туре	
	CID	NOT NULL	NUMBER	
CDEDITE NUMBER	CNAME	-	VARCHAR2(20)	
CREDITS - NUMBER	CREDITS	-	NUMBER	

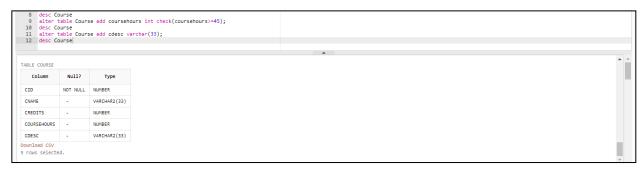
- 2) Alter the structure of the Course table
 - a) Modify datatype of cname.



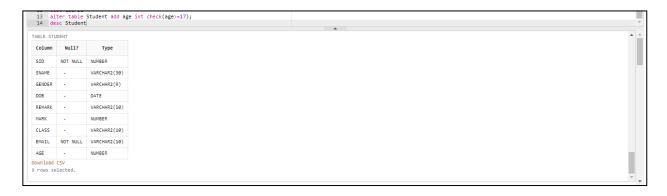
b) Add a column coursehours with minimum course hours greater than 45.



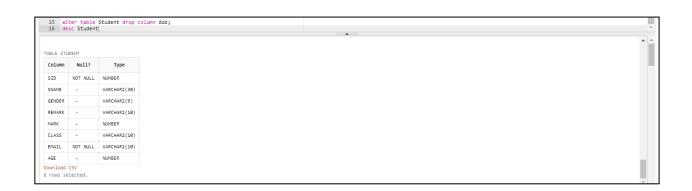
c) Add a column cdesc



- 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

- 21 alter table Student rename column phoneno to contactno;
- 22 desc Student

Column	Null?	Туре
ID	NOT NULL	NUMBER
NAME	-	VARCHAR2(30)
SENDER	-	VARCHAR2(9)
REMARK	-	VARCHAR2(10)
MARK	-	NUMBER
CLASS	-	VARCHAR2(10)
EMAIL	NOT NULL	VARCHAR2(10)
AGE	-	NUMBER
CONTACTNO	-	VARCHAR2(10)

4) Rename Student table as Student_details.

```
25 alter table Student rename to Student_details;
26 desc Student_details
```

Column	Null?	Туре
SID	NOT NULL	NUMBER
SNAME	-	VARCHAR2(30)
SENDER	-	VARCHAR2(9)
REMARK	-	VARCHAR2(10)
MARK	-	NUMBER
CLASS	-	VARCHAR2(10)
EMAIL	NOT NULL	VARCHAR2(10)
AGE	-	NUMBER
CONTACTNO	-	VARCHAR2(10)
wnload CSV rows selec		

5) Describe the structure of both the tables.



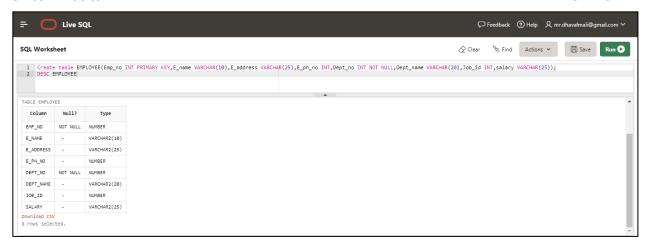
6) Drop the table student_details and Course.

```
29 drop table Student_details;
30 drop table Course;

Table dropped.

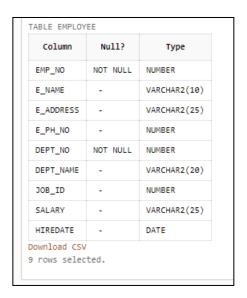
Table dropped.
```

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)



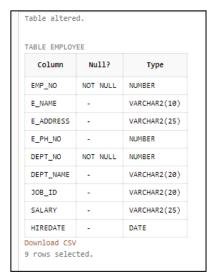
2. Add a new column HIREDATE to the existing relation.

```
3 alter table EMPLOYEE add HIREDATE date;
4 desc EMPLOYEE
```



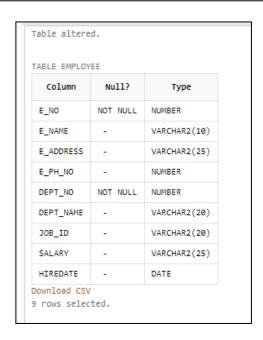
3. Change the datatype of JOB_ID from char to varchar2.

```
5 alter table EMPLOYEE modify(Job_id varchar(20));
6 desc EMPLOYEE
```



4. Change the name of column/field Emp_no to E_no.

```
7 alter table EMPLOYEE rename column Emp_no to E_no;
8 desc EMPLOYEE
```

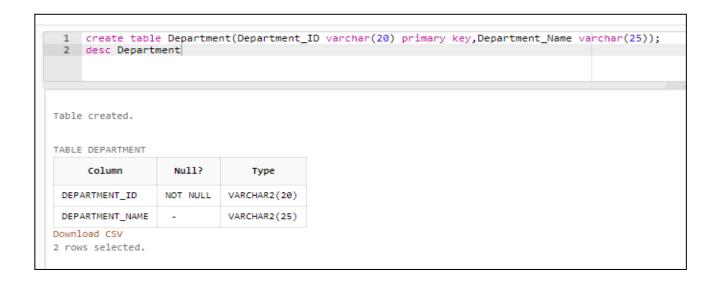


5. Modify the column width of the job field of emp table.

```
9 alter table EMPLOYEE modify Job_id varchar(10);
10 desc EMPLOYEE
```

TABLE EMPLOYEE					
Column	Null?	Туре			
E_NO	NOT NULL	NUMBER			
E_NAME	-	VARCHAR2(10)			
E_ADDRESS	-	VARCHAR2(25)			
E_PH_NO	-	NUMBER			
DEPT_NO	NOT NULL	NUMBER			
DEPT_NAME	-	VARCHAR2(20)			
JOB_ID	-	VARCHAR2(10)			
SALARY	-	VARCHAR2(25)			
HIREDATE	-	DATE			

C) Create the following tables with specified attributes and constraints Department Table: Department_Id varchar2(20) primarykey, Department_Name varchar2(25) with required data.



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'.



C) 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	-	-	-	/

