

**Lab - 9****SQL query based on DDL Part 2**

1. Write a Query to Alter the table employee with multiple columns (EMPNO, ENAME).

QUERY  
 ALTER TABLE emp  
 MODIFY (empno NUMBER(8) PRIMARY KEY)  
 MODIFY (ename VARCHAR2(40) NOT NULL)

OUTPUT

Object Type **TABLE** Object **EMP**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPNO	Number	-	5	0	-	✓	-	-
	ENAME	Varchar2	50	-	-	-	✓	-	-
	DESIGNATION	Varchar2	30	-	-	-	✓	-	-
	SALARY	Number	-	5	10	-	✓	-	-
1 - 4									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPNO	Number	-	8	0	1	-	-	-
	ENAME	Varchar2	40	-	-	-	-	-	-
	DESIGNATION	Varchar2	30	-	-	-	✓	-	-
	SALARY	Number	-	5	10	-	✓	-	-

2. Write a query to add a new column in to employee

QUERY  
 ALTER TABLE emp  
 ADD (bonus NUMBER(4) DEFAULT 0)

Table altered.

OUTPUT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPNO	Number	-	8	0	1	-	-	-
	ENAME	Varchar2	40	-	-	-	-	-	-
	DESIGNATION	Varchar2	30	-	-	-	✓	-	-
	SALARY	Number	-	5	10	-	✓	-	-
	BONUS	Number	-	4	0	-	✓	0	-

3. Write a query to add multiple columns in to employee.

QUERY  
 ALTER TABLE emp  
 ADD (phone NUMBER(10) UNIQUE,  
 email VARCHAR2(30) UNIQUE)

Table altered.

OUTPUT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPNO	Number	-	8	0	1	-	-	-
	ENAME	Varchar2	40	-	-	-	-	-	-
	DESIGNATION	Varchar2	30	-	-	-	✓	-	-
	SALARY	Number	-	5	10	-	✓	-	-
	BONUS	Number	-	4	0	-	✓	0	-
	PHONE	Number	-	10	0	-	✓	-	-
	EMAIL	Varchar2	30	-	-	-	✓	-	-

4. Write a query to drop a column from an existing table employee

QUERY ALTER TABLE emp  
drop (phone)

Table altered.

OUTPUT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPNO	Number	-	8	0	1	-	-	-
	ENAME	Varchar2	40	-	-	-	-	-	-
	DESIGNATION	Varchar2	30	-	-	-	✓	-	-
	SALARY	Number	-	5	10	-	✓	-	-
	BONUS	Number	-	4	0	-	✓	0	-
	EMAIL	Varchar2	30	-	-	-	✓	-	-
1 - 6									

5. Write a query to rename table emp to employee

QUERY ALTER TABLE emp  
RENAME TO employee

Table altered.

OUTPUT

Object Type TABLE Object EMPLOYEE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	EMPNO	Number	-	8	0	1	-	-	-
	ENAME	Varchar2	40	-	-	-	-	-	-
	DESIGNATION	Varchar2	30	-	-	-	✓	-	-
	SALARY	Number	-	5	10	-	✓	-	-
	BONUS	Number	-	4	0	-	✓	0	-
	EMAIL	Varchar2	30	-	-	-	✓	-	-