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EXERCISE 1

1. Create the DEPT table based on the DEPARTMENT following the table instance chart below. Confirm that the table is created.

Column name	ID	NAME
Key Type		
Nulls/Unique		
FK table		
FK column		
Data Type	Number	Varchar2
Length	7	25

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
CREATE TABLE DEPT (  
  ID NUMBER(7) PRIMARY KEY,  
  NAME VARCHAR2(25)  
);
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

2. Create the EMP table based on the following instance chart. Confirm that the table is created.

Column name	ID	LAST_NAME	FIRST_NAME	DEPT_ID
Key Type				
Nulls/Unique				
FK table				
FK column				
Data Type	Number	Varchar2	Varchar2	Number
Length	7	25	25	7

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
CREATE TABLE EMP (  
  ID NUMBER(7) PRIMARY KEY,  
  LAST_NAME VARCHAR2(25),  
  FIRST_NAME VARCHAR2(25),  
  DEPT_ID NUMBER(7),  
  CONSTRAINT fk_dept  
    FOREIGN KEY (DEPT_ID)  
    REFERENCES DEPT(ID)  
);
```

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

3. Modify the EMP table to allow for longer employee last names. Confirm the modification.(Hint: Increase the size to 50)

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
ALTER TABLE EMP  
MODIFY LAST_NAME VARCHAR2(50);
```

Results Explain Describe Saved SQL History

Table altered.

0.02 seconds

4. Create the EMPLOYEES2 table based on the structure of EMPLOYEES table. Include Only the Employee_id, First_name, Last_name, Salary and Dept_id coloumns. Name the columns Id, First_name, Last_name, salary and Dept_id respectively.

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
CREATE TABLE EMPLOYEES2 AS
SELECT
  Employee_id AS ID,
  First_name,
  Last_name,
  Salary,
  Department_id AS Dept_id
FROM EMPLOYEES
WHERE 1 = 0;
```

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

5. Drop the EMP table.

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
DROP TABLE EMP;
```

Results Explain Describe Saved SQL History

Table dropped.

0.05 seconds

6. Rename the EMPLOYEES2 table as EMP.

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
RENAME EMPLOYEES2 TO EMP;
```

Results Explain Describe Saved SQL History

Statement processed.

0.00 seconds

7. Add a comment on DEPT and EMP tables. Confirm the modification by describing the table.

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
SELECT * FROM USER_TAB_COMMENTS
WHERE TABLE_NAME IN ('DEPT', 'EMP');
```

Results Explain Describe Saved SQL History

TABLE_NAME	TABLE_TYPE	COMMENTS
DEPT	TABLE	This table stores department details.
EMP	TABLE	This table stores employee information.

2 rows returned in 0.00 seconds [CSV Export](#)

8. Drop the First_name column from the EMP table and confirm it.

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
DESC EMP;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object EMP

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	ID	Number	-	6	0	-	-	-	-
	LAST_NAME	Varchar2	25	-	-	-	-	-	-
	SALARY	Number	-	8	2	-	✓	-	-
	DEPT_ID	Number	-	4	0	-	✓	-	-

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