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ADBMS Practical Assignment 1

Practical 1.

Create the following tables. (Primary Keys are underlined)

Emp(emp_id ,emp_name, address, bdate)

Investor (inv_name , inv_no, inv_date, inv_amt)

An employee may invest in one or more investments; hence he can be an investor. But an investor need not be an employee of the firm. Insert sufficient number of records in the relations / tables.

1. Create a database and two tables in it.

Ans:- **create database Employee_investor;**
use Employee_investor;
create table Emp(emp_id int primary key,emp_name varchar(20),
emp_address text, bdate date);
create table Investor(inv_no int primary key,inv_name varchar(20),inv_date
date,inv_amt int);

	Field	Type	Null	Key	Default	Extra
►	emp_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	YES		NULL	
	emp_address	text	YES		NULL	
	bdate	date	YES		NULL	

	Field	Type	Null	Key	Default	Extra
►	inv_no	int	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	

2. Add a column 'Salary' in to an Emp table.

Ans:- **alter table Emp add column salary int;**

	Field	Type	Null	Key	Default	Extra
►	emp_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	YES		NULL	
	emp_address	text	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

3. Add a column 'Age' in to an investor table .

Ans:- **alter table Emp add column salary int;**

	Field	Type	Null	Key	Default	Extra
▶	inv_no	int	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	
	age	int	YES		NULL	

4. Change the datatype of inv_no from int to number in Investor table

Ans:- **alter table Investor modify column inv_no numeric;**

	Field	Type	Null	Key	Default	Extra
▶	inv_no	decimal(10,0)	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	
	age	int	YES		NULL	

5. Change the data type of any one column in an existing table.

Ans:- **alter table Emp modify column emp_address varchar(20);**

	Field	Type	Null	Key	Default	Extra
▶	emp_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	YES		NULL	
	emp_address	varchar(20)	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

6. Change the name of column/field Emp_id to E_id.

Ans:- **alter table Emp change emp_id e_id int;**

	Field	Type	Null	Key	Default	Extra
▶	e_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	YES		NULL	
	emp_address	varchar(20)	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

7. Drop a column 'Age' from an Investor table.

Ans:- **alter table Investor drop column age;**

	Field	Type	Null	Key	Default	Extra
▶	inv_no	decimal(10,0)	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	

8. Create a Primary key constraint between two tables.

Ans:- **alter table Emp add primary key(e_id);**
alter table Investor add primary key(inv_no);

	Field	Type	Null	Key	Default	Extra
▶	e_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	YES		NULL	
	emp_address	varchar(20)	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

	Field	Type	Null	Key	Default	Extra
▶	inv_no	decimal(10,0)	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	

9. Create a foreign key constraint between two tables.

Ans:- **alter table Investor add column e_id int, add constraint fk foreign key (e_id) references Emp(e_id);**

	Field	Type	Null	Key	Default	Extra
▶	inv_no	decimal(10,0)	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	
	e_id	int	YES	MUL	NULL	

10. Drop a foreign key constraint between two tables.

Ans:- **alter table Investor drop column e_id;**

	Field	Type	Null	Key	Default	Extra
▶	inv_no	decimal(10,0)	NO	PRI	NULL	
	inv_name	varchar(20)	YES		NULL	
	inv_date	date	YES		NULL	
	inv_amt	int	YES		NULL	

11. Create a Not Null constraint to emp_name

Ans:- **alter table Emp modify column emp_name varchar(20) not null;**

	Field	Type	Null	Key	Default	Extra
▶	e_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	NO		NULL	
	emp_address	varchar(20)	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

12. Create a Unique key constraint between two tables.

Ans:- **alter table Emp add constraint unique_name unique(emp_name);**

	Field	Type	Null	Key	Default	Extra
▶	e_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	NO	UNI	NULL	
	emp_address	varchar(20)	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

13. Drop a Unique key constraint between two tables.

Ans:- **alter table Emp drop index unique_name ;**

	Field	Type	Null	Key	Default	Extra
▶	e_id	int	NO	PRI	NULL	
	emp_name	varchar(20)	NO		NULL	
	emp_address	varchar(20)	YES		NULL	
	bdate	date	YES		NULL	
	salary	int	YES		NULL	

14. Rename a table.

Ans:- **alter table Emp rename to employee;**

19 14:39:05 alter table Emp rename to employee 0 row(s) affected

15. Drop anyone table

Ans:- **drop table employee;**

20 14:39:48 drop table employee 0 row(s) affected