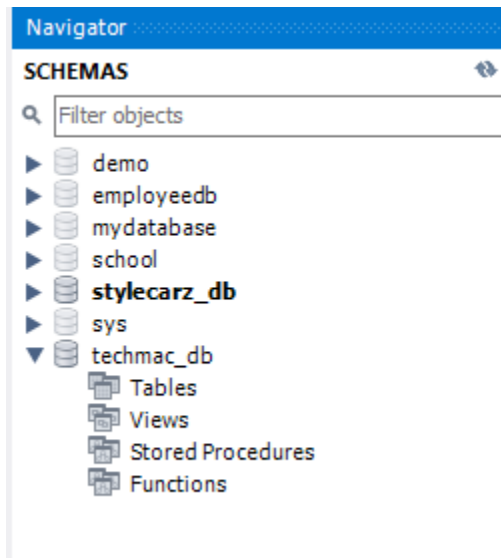


## SPRINT 1 : CREATING & MANIPULATING DATABASE OBJECTS (PRACTICE)

**/\* Task-1 : Construct a database to store & manage sales records.Name the database as "techmac\_db" and activate it to store database object such as tables \*/**

```
create database techmac_db;
```

```
use techmac_db;
```



**/\* Task no 2 : Create thress tables "techyve\_employees", "techcloud\_employees" & "techsoft\_employess"**

**to store and manage employees records & table must be designed to store employee's ID,firstname, lastname & age\*/**

```
create table techhyve_employees
```

```
(
```

```
employees_ID varchar(10),
```

```
first_name varchar(20),
```

```
last_name varchar(20),
```

```
gender varchar(10),
```

```
age int
```

);

desc techhyve\_employees;

Field	Type	Null	Key	Default	Extra
employees_ID	varchar(10)	YES		NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
gender	varchar(10)	YES		NULL	
age	int	YES		NULL	

create table if not exists techcloud\_employees select \* from techhyve\_employees;

desc techcloud\_employees;

Field	Type	Null	Key	Default	Extra
employees_ID	varchar(10)	YES		NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
gender	varchar(10)	YES		NULL	
age	int	YES		NULL	

create table if not exists techsoft\_employees select \* from techhyve\_employees;



desc techsoft\_employees;

Field	Type	Null	Key	Default	Extra
employees_ID	varchar(10)	YES		NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
gender	varchar(10)	YES		NULL	
age	int	YES		NULL	

**/\* Task no 3 : Add proficiency\_level column in each table \*/**



alter table techhyve\_employees add column proficiency\_level int;

desc techhyve\_employees;

Result Grid						
Filter Rows:		Export:  Wrap Cell Content: 				
Field	Type	Null	Key	Default	Extra	
employees_ID	varchar(10)	YES		NULL		
first_name	varchar(20)	YES		NULL		
last_name	varchar(20)	YES		NULL		
gender	varchar(10)	YES		NULL		
age	int	YES		NULL		
proficiency_level	int	YES		NULL		



alter table techcloud\_employees add column proficiency\_level int;

desc techcloud\_employees;

Result Grid						
Filter Rows:		Export:  Wrap Cell Content: 				
Field	Type	Null	Key	Default	Extra	
employees_ID	varchar(10)	YES		NULL		
first_name	varchar(20)	YES		NULL		
last_name	varchar(20)	YES		NULL		
gender	varchar(10)	YES		NULL		
age	int	YES		NULL		
proficiency_level	int	YES		NULL		

alter table techsoft\_employees add column proficiency\_level int;

desc techsoft\_employees;

Result Grid						
Filter Rows:		Export:  Wrap Cell Content: 				
Field	Type	Null	Key	Default	Extra	
employees_ID	varchar(10)	YES		NULL		
first_name	varchar(20)	YES		NULL		
last_name	varchar(20)	YES		NULL		
gender	varchar(10)	YES		NULL		
age	int	YES		NULL		
proficiency_level	int	YES		NULL		

/\* Task no 4 :

Add 'employee\_ID' as primary key

Proficiency\_level should be between 1 and 5. Alter Proficiency\_level column with check constraint and

set default value of this column as 1

Age of the employees should be between 21 and 55. So modify the Age column structure with check constraint \*/

```
alter table techhyve_employees add primary key (employees_ID);
```

```
alter table techhyve_employees add check (proficiency_level between 1 and 5), alter proficiency_level set default 1;
```

```
alter table techhyve_employees add check (age between 21 and 55);
```

```
desc techhyve_employees;
```

Result Grid   Filter Rows:   Export:   Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	employees_ID	varchar(10)	NO	PRI	NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	gender	varchar(10)	YES		NULL	
	age	int	YES		NULL	
	proficiency_level	int	YES		1	

```
alter table techcloud_employees add primary key (employees_ID);
```

```
alter table techcloud_employees add check (proficiency_level between 1 and 5), alter proficiency_level set default 1;
```

```
alter table techcloud_employees add check (age between 21 and 55);
```

```
desc techcloud_employees;
```

Result Grid   Filter Rows:   Export:   Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	employees_ID	varchar(10)	NO	PRI	NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	gender	varchar(10)	YES		NULL	
	age	int	YES		NULL	
	proficiency_level	int	YES		1	

```
alter table techsoft_employees add primary key (employees_ID);
```

alter table techsoft\_employees add check (proficiency\_level between 1 and 5), alter proficiency\_level set default 1;

alter table techsoft\_employees add check (age between 21 and 55);

desc techsoft\_employees;

Result Grid   Filter Rows:   Export:   Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	employees_ID	varchar(10)	NO	PRI	NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	gender	varchar(10)	YES		NULL	
	age	int	YES		NULL	
	proficiency_level	int	YES		1	

**/\* Task no 5 : Insert data into "techhyve\_employees", "techcloud\_employees" & "techsoft\_employees" in the table \*/**

insert into techhyve\_employees values

('TH0001','Eli','Evans','Male',26,1),('TH0002','Carlos','Simmons','Male',32,2),

('TH0003','Kathie','Bryant','Female',25,1),('TH0004','Joey','Hughes','Male',41,4),('TH0005','Alice','Matthews','Female',52,4);

select \* from techhyve\_employees;

Result Grid   Filter Rows:   Edit:   Export/Import:   Wrap Cell Content						
	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TH0001	Eli	Evans	Male	26	1
	TH0002	Carlos	Simmons	Male	32	2
	TH0003	Kathie	Bryant	Female	25	1
	TH0004	Joey	Hughes	Male	41	4
	TH0005	Alice	Matthews	Female	52	4
*	NULL	NULL	NULL	NULL	NULL	NULL

insert into techcloud\_employees values

('TC0001','Teresa','Bryant','Female',39,2),('TC0002','Alexis','Patterson','Male',48,5),

('TC0003','Rose','Bell','Female',42,3),('TC0004','Gemma','Watkins','Female',44,3),('TC0005','Kingston','Martinez','Male',29,2);

select \* from techcloud\_employees;

employees_ID	first_name	last_name	gender	age	proficiency_level
TC0001	Teresa	Bryant	Female	39	2
TC0002	Alexis	Patterson	Male	48	5
TC0003	Rose	Bell	Female	42	3
TC0004	Gemma	Watkins	Female	44	3
TC0005	Kingston	Martinez	Male	29	2
NULL	NULL	NULL	NULL	NULL	NULL

insert into techsoft\_employees values

('TS0001','Peter','Burtler','Male',44,4),('TS0002','Harold','Simmons','Male',54,4),

('TS0003','Juliana','Sanders','Female',36,2),('TS0004','Paul','Ward','Male',29,2),('TS0005','Nicole','Bryant','Female',30,2);

select \* from techsoft\_employees;

employees_ID	first_name	last_name	gender	age	proficiency_level
TS0001	Peter	Burtler	Male	44	4
TS0002	Harold	Simmons	Male	54	4
TS0003	Juliana	Sanders	Female	36	2
TS0004	Paul	Ward	Male	29	2
TS0005	Nicole	Bryant	Female	30	2
NULL	NULL	NULL	NULL	NULL	NULL

/\* Task no 6 : Clone three tables "techhyve\_employees","techcloud\_employees" & "techsoft\_employees" as

"techhyve\_employees\_bkp","techcloud\_employees\_bkp" & "techsoft\_employees\_bkp" \*/

create table if not exists techhyve\_employees\_bkp select \* from techhyve\_employees;

select \* from techhyve\_employees\_bkp;

/\* Create table if not exists techcloud\_employees\_bkp select \* from techcloud\_employees;

select \* from techcloud\_employees\_bkp;

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TH0001	Eli	Evans	Male	26	1
	TH0002	Carlos	Simmons	Male	32	2
	TH0003	Kathie	Bryant	Female	25	1
	TH0004	Joey	Hughes	Male	41	4
	TH0005	Alice	Matthews	Female	52	4

create table if not exists techcloud\_employees\_bkp select \* from techcloud\_employees;

select \* from techcloud\_employees\_bkp;

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TC0001	Teresa	Bryant	Female	39	2
	TC0002	Alexis	Patterson	Male	48	5
	TC0003	Rose	Bell	Female	42	3
	TC0004	Gemma	Watkins	Female	44	3
	TC0005	Kingston	Martinez	Male	29	2

create table if not exists techsoft\_employees\_bkp select \* from techsoft\_employees;

select \* from techsoft\_employees\_bkp;

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TS0001	Peter	Burtler	Male	44	4
	TS0002	Harold	Simmons	Male	54	4
	TS0003	Juliana	Sanders	Female	36	2
	TS0004	Paul	Ward	Male	29	2
	TS0005	Nicole	Bryant	Female	30	2

/\* Task no 7 : Delete records of the employees with following employees codes

TH0003, TH0005, TC0001 and TC0004 \*/

delete from techhyve\_employees where employees\_ID in ('TH0003','TH0005');

select \* from techhyve\_employees;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TH0001	Eli	Evans	Male	26	1
	TH0002	Carlos	Simmons	Male	32	2
	TH0004	Joey	Hughes	Male	41	4
✱	NULL	NULL	NULL	NULL	NULL	NULL

delete from techcloud\_employees where employees\_ID in ('TC0001','TC0004');

select \* from techcloud\_employees;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TC0002	Alexis	Patterson	Male	48	5
	TC0003	Rose	Bell	Female	42	3
	TC0005	Kingston	Martinez	Male	29	2
*	NULL	NULL	NULL	NULL	NULL	NULL

/\* Task no 8 :

Merge records from "techhyve\_employees" & "techcloud\_employees" and store

it in new table "techhyvecloud\_employees"alter

Truncate records from "techhyve\_employees" & "techcloud\_employees" \*/

create table if not exists techhyvecloud\_employees like techhyve\_employees;

desc techhyvecloud\_employees;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	employees_ID	varchar(10)	NO	PRI	NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	gender	varchar(10)	YES		NULL	
	age	int	YES		NULL	
	proficiency_level	int	YES		1	

insert techhyvecloud\_employees select \* from techhyve\_employees;

insert techhyvecloud\_employees select \* from techcloud\_employees;

select \* from techhyvecloud\_employees;



Result Grid						
Filter Rows:						
	employees_ID	first_name	last_name	gender	age	proficiency_level
▶	TC0002	Alexis	Patterson	Male	48	5
	TC0003	Rose	Bell	Female	42	3
	TC0005	Kingston	Martinez	Male	29	2
	TH0001	Eli	Evans	Male	26	1
	TH0002	Carlos	Simmons	Male	32	2
	TH0004	Joey	Hughes	Male	41	4
*	NULL	NULL	NULL	NULL	NULL	NULL

**truncate table techhyve\_employees;**

**select \* from techhyve\_employees;**

Result Grid						
Filter Rows:						
	employees_ID	first_name	last_name	gender	age	proficiency_level
*	NULL	NULL	NULL	NULL	NULL	NULL

**truncate table techcloud\_employees;**

**select \* from techcloud\_employees;**

Result Grid						
Filter Rows:						
	employees_ID	first_name	last_name	gender	age	proficiency_level
*	NULL	NULL	NULL	NULL	NULL	NULL