Name: Venkatesh Kumar B

Date: 22/11/2024

PLSQL

CODE:

```
ALTER TABLE WORKER ADD JoiningDate DATE;

use assignment; select * from product;

CREATE table WORKER( empid int, empname varchar(45), empsalary int, empdomain varchar(30), emp_age int);

INSERT into WORKER values

(20, 'Deepak', 20000, 'rpa', 23),

(17, 'Kumar', 17000, 'mech', 22),

(10, 'Raja', 30000, 'DA', 24),

(13, 'arun', 22000,'DAt', 25),

 (15, 'vasanth', 32000, 'AI', 27);

set sql_safe_updates=0;

UPDATE WORKER set JoiningDate='2019-12-21' WHERE empId = 20;

UPDATE WORKER set JoiningDate='2018-08-12' WHERE empId = 17;

UPDATE WORKER set JoiningDate='2017-07-12' WHERE empId = 10;

UPDATE WORKER set JoiningDate='2016-05-10' WHERE empId = 13;

UPDATE WORKER set JoiningDate='2015-04-09' WHERE empId = 15;
```

```sql
UPDATE WORKER set JoiningDate='2021-07-01' WHERE empId = 30;


create view JoiningDate as

select * from WORKER

where JoiningDate in (select min(JoiningDate) from WORKER);

select * from JoiningDate

/* Stored procedure to get products by giving id*/

-- --------------STEP--1-------------------------------------------------------------------

use works;

-- STEP--2---------------------------------------------------------------------------

CREATE TABLE product(

productId int ,

productName varchar(30),

productQty int,

price int

);

-- STEP-3------------------------------------------------------------------------------ insert into
product value

(10 , 'laptop' , 5 , 25000),

(11 , 'Ram' , 6, 10000),

(12 , 'Motherboard' , 4, 20000),

(13 , 'PSU' , 7 , 15000);

-- STEP-4--------------------------------------------------------------- DELIMITER //
```

```sql
create procedure getProduct(IN id int)

begin

select * from Product where productId = id;

end //

DELIMITER ;

DROP procedure getProduct;

-- STEP-5------------------------------------------------------------------

call getProduct(12);

/* Stored procedure to get all products*/

create database works;

use works;

CREATE TABLE product(

productId int ,

productName varchar(30),

productQty int,

price int

);

insert into product value

(10 , 'laptop' , 5 , 25000),

(11 , 'Ram' , 6, 10000),

(12 , 'Motherboard' , 4, 20000),

(13 , 'Psu' , 7 , 15000);
```

```sql
-- STEP-6-------------------------------------------------------------------

DELIMITER //

create procedure getMYProducts()

begin

select * from Product;

end //

DELIMITER ;

-- ---STEP-7------------------------------------------------------------------

call getMYProducts;

/* Stored procedure to return products where price condition */

create database works;

use works;

CREATE TABLE product(

productId int ,

productName varchar(30),

productQty int,

price int

);

insert into product value

(10 , 'laptop' , 5 , 25000),

(11 , 'Ram' , 6, 10000),

(13 , 'Motherboard' , 4, 20000),
```

(14 , 'Psu' , 7 , 15000);

-- -----STEP-8--- select * from product

where price < 25000;

-- --STEP-9--

DELIMITER //

CREATE procedure getExpiredProducts(IN year INT)

BEGIN

select * from product

where YEAR (expireDate)=YEAR ;

END //

DELIMITER ;

-- STEP-10--

CALL getExpiredProducts(2023);

-- -----STEP-11--

select * from WORKER

where location='Chennai';

Output

Screenshot 1 — MySQL Workbench

MySQL Workbench

my_server ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator — Last_Update ×

SQL Additions

MANAGEMENT
- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE
- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE
- Dashboard
- Performance Reports
- Performance Schema Setup

Administration   Schemas

Information

No object selected

Object Info   Session

Limit to 1000 rows

```
1 •   ALTER TABLE WORKER
2 •     ADD JoiningDate DATE;
3
4
5 •   use assignment;
6 •   select * from product;
7
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

productId	productName	productQty	price
10	laptop	5	25000
11	Ram	6	10000
12	Motherboard	4	20000
13	PSU	7	15000
10	laptop	5	25000

product 1 ×

Read Only

Context Help   Snippets

Result Grid

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:33:41	select * from product LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

---

Screenshot 2 — MySQL Workbench

MySQL Workbench

my_server ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator — Last_Update* ×

SQL Additions

MANAGEMENT
- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE
- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE
- Dashboard
- Performance Reports
- Performance Schema Setup

Administration   Schemas

Information

No object selected

Object Info   Session

Limit to 1000 rows

```
1 •   ALTER TABLE WORKER
2 •     ADD JoiningDate DATE;
3
4
5 •   use assignment;
6 •   select * from WORKER;
7
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

empid	empname	empsalary	empdomain	emp_age	JoiningDate
20	Deepak	20000	rpa	23	2019-12-21
17	Kumar	17000	mech	22	2018-08-12
10	Raja	30000	DA	24	2017 [2017-07-12]
13	arun	22000	DAt	25	2016-05-10
15	vasanth	32000	AI	27	2015-04-09

WORKER 2 ×

Read Only

Context Help   Snippets

Result Grid

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:33:41	select * from product LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
2	13:34:00	select * from WORKER LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Last_Update*

```
37 •    create view JoiningDate as
38
39      select * from WORKER
40
41      where JoiningDate in (select min(JoiningDate) from WORKER);
42
43 •    select * from JoiningDate
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

empid	empname	empsalary	empdomain	emp_age	JoiningDate
15	vasanth	32000	AI	27	2015-04-09

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:33:41	select * from product LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
2	13:34:00	select * from WORKER LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
3	13:34:32	select * from JoiningDate LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

---

MySQL Workbench

Last_Update*

```
8 •    UPDATE PRODUCT set expireDate='2019-12-21' WHERE productId = 10;
9
10 •   UPDATE PRODUCT set expireDate='2018-08-12' WHERE productId = 11;
11
12 •   UPDATE PRODUCT set expireDate='2017-07-12' WHERE productId = 12;
13
14 •   select * from PRODUCT;
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

productId	productName	productQty	price	expireDate
13	PSU	7	15000	NULL
10	laptop	5	25000	2019-12-21
11	Ram	6	10000	2018-08-12
12	Motherboard	4	20000	2017-07-12
13	PSU	7	15000	NULL

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator

MANAGEMENT
- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE
- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE
- Dashboard
- Performance Reports
- Performance Schema Setup

Last_Update*

```
212      DELIMITER ;
213
214
215  •   -- STEP-10-----------------------------------------------------------
216
217      CALL getExpiredProducts(2017);
218
```

Limit to 1000 rows

SQL Additions

Automatic context help is
disabled. Use the toolbar to
manually get help for the current
caret position or to toggle
automatic help.

Result Grid   Filter Rows: Export: Wrap Cell Content:

productId	productName	productQty	price	expireDate
12	Motherboard	4	20000	2017-07-12
12	Motherboard	4	20000	2017-07-12

Result
Grid