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Date: 22/11/2024

PL/SQL

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;
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;

USE works;
```

```sql
CREATE TABLE product (
    productId INT,
    productName VARCHAR(30),
    productQty INT,
    price INT
);

INSERT INTO product VALUES
    (10, 'laptop', 5, 25000),
    (11, 'Ram', 6, 10000),
    (12, 'Motherboard', 4, 20000),
    (13, 'PSU', 7, 15000);

DELIMITER //
CREATE PROCEDURE getProduct(IN id INT)
BEGIN
    SELECT * FROM product WHERE productId = id;
END //
DELIMITER ;

DROP PROCEDURE getProduct;

CALL getProduct(12);

CREATE DATABASE works;
USE works;

CREATE TABLE product (
    productId INT,
    productName VARCHAR(30),
    productQty INT,
    price INT
);

INSERT INTO product VALUES
    (10, 'laptop', 5, 25000),
    (11, 'Ram', 6, 10000),
    (12, 'Motherboard', 4, 20000),
    (13, 'PSU', 7, 15000);

DELIMITER //
```

```sql
CREATE PROCEDURE getMYProducts()
BEGIN
    SELECT * FROM product;
END //
DELIMITER ;

CALL getMYProducts;

CREATE DATABASE works;
USE works;

CREATE TABLE product (
    productId INT,
    productName VARCHAR(30),
    productQty INT,
    price INT
);

INSERT INTO product VALUES
    (10, 'laptop', 5, 25000),
    (11, 'Ram', 6, 10000),
    (13, 'Motherboard', 4, 20000),
    (14, 'PSU', 7, 15000);

SELECT * FROM product
WHERE price < 25000;

DELIMITER //
CREATE PROCEDURE getExpiredProducts(IN year INT)
BEGIN
    SELECT * FROM product
    WHERE YEAR(expireDate) = year;
END //
DELIMITER ;

CALL getExpiredProducts(2023);

SELECT * FROM WORKER WHERE location = 'Chennai';
```

 OUTPUT:

MySQL Workbench — my_server

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Navigator — Last_Update

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Administration   Schemas

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

Limit to 1000 rows

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

SQLAdditions

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

Context Help   Snippets

Information

No object selected

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

Object Info   Session

MySQL Workbench — my_server

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Navigator — Last_Update*

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Administration   Schemas

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

Limit to 1000 rows

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

SQLAdditions

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

Context Help   Snippets

Information

No object selected

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

Object Info   Session

Screenshot 1

MySQL Workbench — □ ×

my_server ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

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Administration   Schemas

Information

No object selected

Object Info   Session

Last_Update* ×

Limit to 1000 rows ▾

```
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
```

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

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

JoiningDate 3 ×   Read Only

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

SQLAdditions

Jump to

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Context Help   Snippets

Screenshot 2

MySQL Workbench — □ ×

my_server ×

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PERFORMANCE
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- Performance Schema Setup

Last_Update* ×

Limit to 1000 rows ▾

```
 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;
```

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

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

SQLAdditions

Jump to

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Screenshot 3

MySQL Workbench — □ ×

my_server ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

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PERFORMANCE
- Dashboard
- Performance Reports
- Performance Schema Setup

Last_Update* ×

Limit to 1000 rows ▾

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

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

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

SQLAdditions

Jump to

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