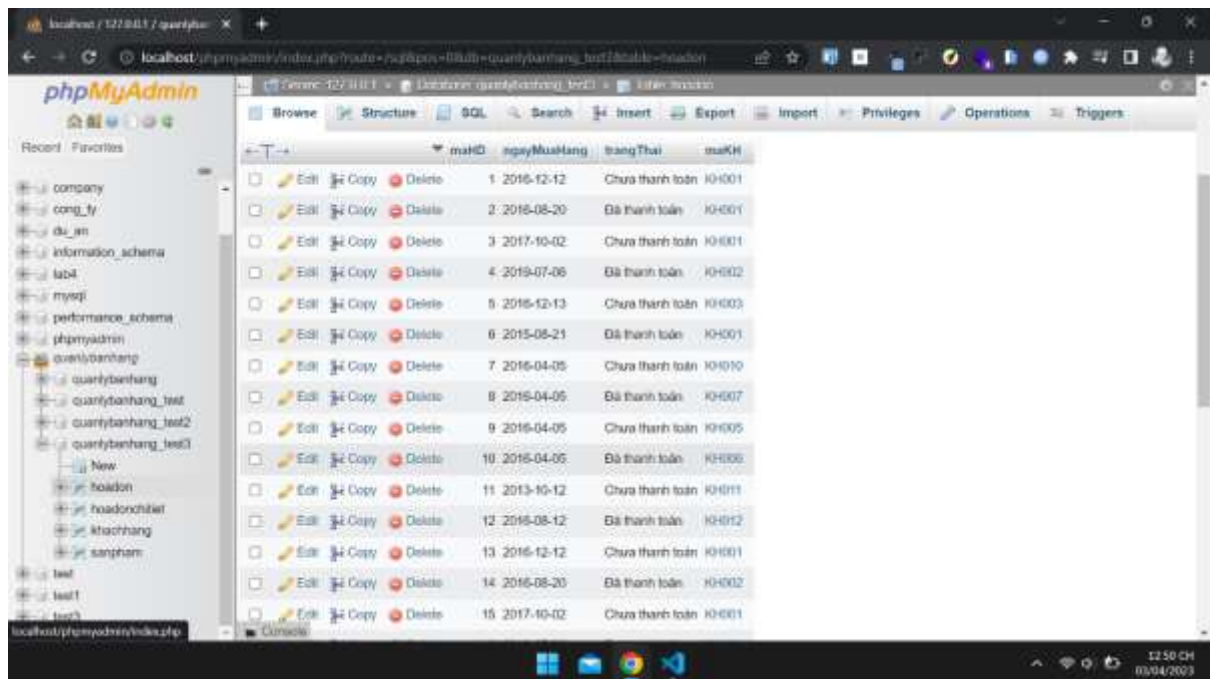


Ban ghi:

Hoadon:



	maHD	ngayMuaHang	trangThai	maKH
<input type="checkbox"/>	Edit Copy Delete	1 2016-12-12	Chưa thanh toán	KH001
<input type="checkbox"/>	Edit Copy Delete	2 2016-08-20	Đã thanh toán	KH001
<input type="checkbox"/>	Edit Copy Delete	3 2017-10-02	Chưa thanh toán	KH001
<input type="checkbox"/>	Edit Copy Delete	4 2019-07-06	Đã thanh toán	KH002
<input type="checkbox"/>	Edit Copy Delete	5 2016-12-13	Chưa thanh toán	KH003
<input type="checkbox"/>	Edit Copy Delete	6 2015-08-21	Đã thanh toán	KH001
<input type="checkbox"/>	Edit Copy Delete	7 2016-04-05	Chưa thanh toán	KH010
<input type="checkbox"/>	Edit Copy Delete	8 2016-04-05	Đã thanh toán	KH007
<input type="checkbox"/>	Edit Copy Delete	9 2016-04-05	Chưa thanh toán	KH005
<input type="checkbox"/>	Edit Copy Delete	10 2016-04-05	Đã thanh toán	KH006
<input type="checkbox"/>	Edit Copy Delete	11 2013-10-12	Chưa thanh toán	KH011
<input type="checkbox"/>	Edit Copy Delete	12 2016-08-12	Đã thanh toán	KH012
<input type="checkbox"/>	Edit Copy Delete	13 2016-12-12	Chưa thanh toán	KH001
<input type="checkbox"/>	Edit Copy Delete	14 2016-08-20	Đã thanh toán	KH002
<input type="checkbox"/>	Edit Copy Delete	15 2017-10-02	Chưa thanh toán	KH001

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  - quanybanhang\_test2
  - quanybanhang\_test3
  - New
  - hoadon
  - hoadonchiet
  - khachhang
  - sanpham
- test
- test1
- test3

Database: quanybanhang\_test3

	maHD	ngayMuaHang	trangThai	maKH
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	16 2012-07-06 Đã thanh toán KH001
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	17 2016-10-13 Chưa thanh toán KH001
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	18 2014-08-21 Đã thanh toán KH001
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	19 2016-04-05 Chưa thanh toán KH010
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	20 2013-04-05 Đã thanh toán KH007
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	21 2016-12-12 Chưa thanh toán KH011
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	22 2016-08-20 Đã thanh toán KH021
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	23 2017-10-02 Chưa thanh toán KH031
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	24 2016-07-06 Đã thanh toán KH022
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	25 2016-12-13 Chưa thanh toán KH033
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	26 2016-08-21 Đã thanh toán KH040
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	27 2016-04-05 Chưa thanh toán KH032
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	28 2016-04-05 Đã thanh toán KH033
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	29 2016-04-05 Chưa thanh toán KH023
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	30 2016-04-05 Đã thanh toán KH035

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  - quanybanhang\_test2
  - quanybanhang\_test3
  - New
  - hoadon
  - hoadonchiet
  - khachhang
  - sanpham
- test
- test1
- test3

Database: quanybanhang\_test3

	maHD	ngayMuaHang	trangThai	maKH
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	31 2013-10-12 Chưa thanh toán KH018
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	32 2016-08-12 Đã thanh toán KH009
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	33 2016-12-12 Chưa thanh toán KH031
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	34 2016-08-20 Đã thanh toán KH002
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	35 2017-10-02 Chưa thanh toán KH001
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	36 2012-07-06 Đã thanh toán KH001
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	37 2016-10-13 Chưa thanh toán KH021
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	38 2014-08-21 Đã thanh toán KH033
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	39 2016-04-05 Chưa thanh toán KH040
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	40 2013-04-05 Đã thanh toán KH037

☐ Check all   With selected   [Edit](#)   [Copy](#)   [Delete](#)   [Export](#)

☒ Show all   Number of rows: All   Filter rows: Search this table   Sort by key: None

Query results operations

[Console](#)   [Copy to clipboard](#)   [Export](#)   [Display chart](#)   [Create view](#)

Hoadonchitiet:

The screenshot shows the phpMyAdmin interface with the 'quanythanhang\_test3' database selected. The table 'maHDCT' is displayed with the following data:

maHDCT	soLuong	maHD	maSP
1	60	1	1
2	120	2	2
3	100	3	3
4	100	4	4
5	100	5	5
6	60	6	6
7	100	7	7
8	12	8	8
9	120	9	9
10	60	10	10
11	14	11	11
12	12	12	12
13	60	13	13
14	120	14	14
15	100	15	15

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phpMyAdmin

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  - quanlybanhang\_test
  - quanlybanhang\_test2
  - quanlybanhang\_test3
    - New
    - hoadon
    - hoadonchitiet
    - khachhang
    - sangpham
- test
- test1
- test2

Database: quanlybanhang\_test3

Table: maHOC

	maHOC	soLuuHoc	maHD	maSP
<input type="checkbox"/>	Edit Copy Delete	16	100	16
<input type="checkbox"/>	Edit Copy Delete	17	100	17
<input type="checkbox"/>	Edit Copy Delete	18	60	18
<input type="checkbox"/>	Edit Copy Delete	19	100	19
<input type="checkbox"/>	Edit Copy Delete	20	12	20
<input type="checkbox"/>	Edit Copy Delete	21	600	21
<input type="checkbox"/>	Edit Copy Delete	22	120	22
<input type="checkbox"/>	Edit Copy Delete	23	300	23
<input type="checkbox"/>	Edit Copy Delete	24	420	24
<input type="checkbox"/>	Edit Copy Delete	25	10	25
<input type="checkbox"/>	Edit Copy Delete	26	60	26
<input type="checkbox"/>	Edit Copy Delete	27	200	27
<input type="checkbox"/>	Edit Copy Delete	28	120	28
<input type="checkbox"/>	Edit Copy Delete	29	110	29
<input type="checkbox"/>	Edit Copy Delete	30	600	30

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  - quanlybanhang\_test
  - quanlybanhang\_test2
  - quanlybanhang\_test3
    - New
    - hoadon
    - hoadonchitiet
    - khachhang
    - sangpham
- test
- test1
- test2

Database: quanlybanhang\_test3

Table: maHOC

	maHOC	soLuuHoc	maHD	maSP
<input type="checkbox"/>	Edit Copy Delete	31	140	31
<input type="checkbox"/>	Edit Copy Delete	32	912	32
<input type="checkbox"/>	Edit Copy Delete	33	620	33
<input type="checkbox"/>	Edit Copy Delete	34	1250	34
<input type="checkbox"/>	Edit Copy Delete	35	1020	35
<input type="checkbox"/>	Edit Copy Delete	36	1040	36
<input type="checkbox"/>	Edit Copy Delete	37	1040	37
<input type="checkbox"/>	Edit Copy Delete	38	601	38
<input type="checkbox"/>	Edit Copy Delete	39	1020	39
<input type="checkbox"/>	Edit Copy Delete	40	124	40

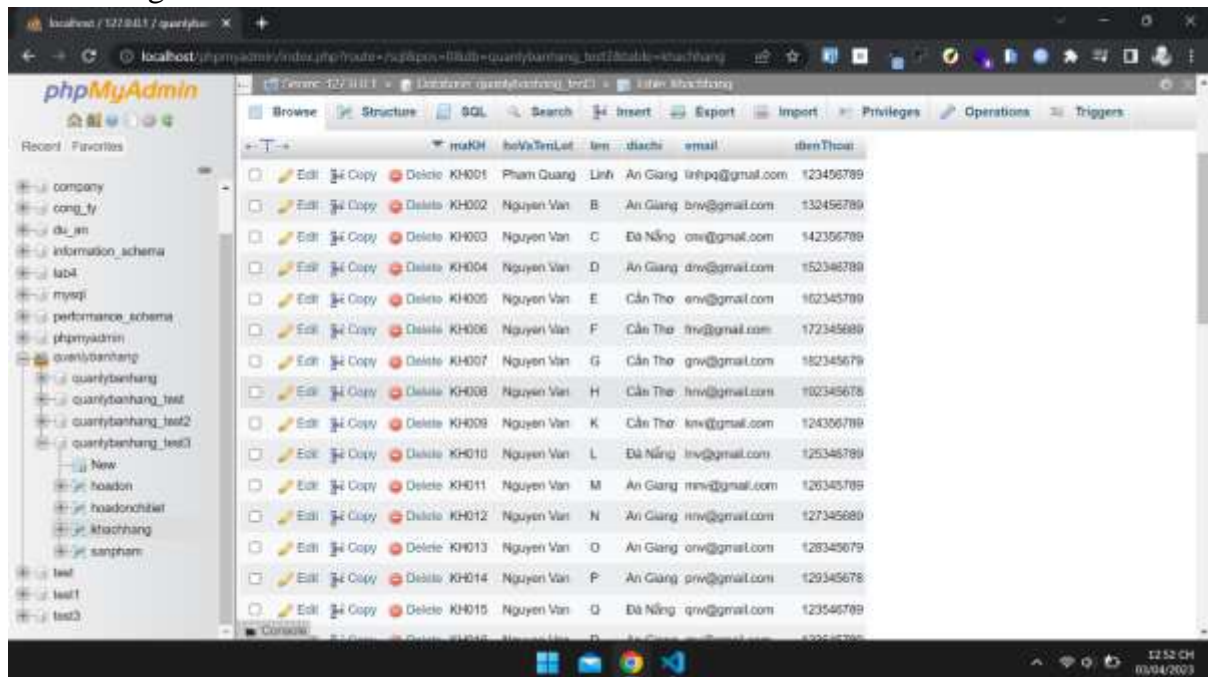
☐ Check all ☐ With selected ☐ Edit ☐ Copy ☐ Delete ☐ Export

☒ Show all Number of rows: All Filter rows: Search this table Sort by key: None

Query results operations

☐ Console ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Khachhang:



The screenshot shows the phpMyAdmin interface with the 'quanytdanh' database selected. The 'khachhang' table is displayed with the following data:

	maKH	hoVaTenLot	ten	diaChi	email	dienThoai		
<input type="checkbox"/>	Edit	Copy	Delete	KH001	Pham Quang Linh	An Giang	linhpq@gmail.com	123456789
<input type="checkbox"/>	Edit	Copy	Delete	KH002	Nguyen Van B	An Giang	bnv@gmail.com	132456789
<input type="checkbox"/>	Edit	Copy	Delete	KH003	Nguyen Van C	Da Nang	cnv@gmail.com	142356789
<input type="checkbox"/>	Edit	Copy	Delete	KH004	Nguyen Van D	An Giang	dnv@gmail.com	1523456789
<input type="checkbox"/>	Edit	Copy	Delete	KH005	Nguyen Van E	Cần Thơ	env@gmail.com	162345789
<input type="checkbox"/>	Edit	Copy	Delete	KH006	Nguyen Van F	Cần Thơ	fnv@gmail.com	172345689
<input type="checkbox"/>	Edit	Copy	Delete	KH007	Nguyen Van G	Cần Thơ	gnv@gmail.com	182345679
<input type="checkbox"/>	Edit	Copy	Delete	KH008	Nguyen Van H	Cần Thơ	hnv@gmail.com	192345678
<input type="checkbox"/>	Edit	Copy	Delete	KH009	Nguyen Van K	Cần Thơ	knv@gmail.com	124356789
<input type="checkbox"/>	Edit	Copy	Delete	KH010	Nguyen Van L	Da Nang	lnv@gmail.com	125345789
<input type="checkbox"/>	Edit	Copy	Delete	KH011	Nguyen Van M	An Giang	mrv@gmail.com	126345789
<input type="checkbox"/>	Edit	Copy	Delete	KH012	Nguyen Van N	An Giang	nrv@gmail.com	127345680
<input type="checkbox"/>	Edit	Copy	Delete	KH013	Nguyen Van O	An Giang	onv@gmail.com	128345679
<input type="checkbox"/>	Edit	Copy	Delete	KH014	Nguyen Van P	An Giang	prv@gmail.com	129345678
<input type="checkbox"/>	Edit	Copy	Delete	KH015	Nguyen Van Q	Da Nang	qrv@gmail.com	1235456789



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  - quanlybanhang\_test2
  - quanlybanhang\_test3
    - New
  - hoadon
  - hoadonchiet
  - khachhang
  - sanpham
- test
- test1
- test2

Database: quanlybanhang\_test3

Table: khachhang

	maKH	hoVaTenLot	ten	diachi	email	dienThoai
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	KH016	Nguyen Van	R	An Giang	rmv@gmail.com	123645780
<input type="checkbox"/>	KH017	Nguyen Van	S	Cần Thơ	smv@gmail.com	123745689
<input type="checkbox"/>	KH018	Nguyen Van	T	Cần Thơ	tmv@gmail.com	123845678
<input type="checkbox"/>	KH019	Nguyen Van	U	Cần Thơ	umv@gmail.com	123945678
<input type="checkbox"/>	KH020	Nguyen Van	V	Cần Thơ	vmv@gmail.com	123456789
<input type="checkbox"/>	KH021	Nguyen Van	A	An Giang	amv@gmail.com	111111111
<input type="checkbox"/>	KH022	Nguyen Van	B	An Giang	bm1@gmail.com	2147483647
<input type="checkbox"/>	KH023	Nguyen Van	C	Đà Nẵng	cm1@gmail.com	333333333
<input type="checkbox"/>	KH024	Nguyen Van	D	An Giang	dm1@gmail.com	444444444
<input type="checkbox"/>	KH025	Nguyen Van	E	Cần Thơ	emv@gmail.com	555555555
<input type="checkbox"/>	KH026	Nguyen Van	F	Cần Thơ	fmv@gmail.com	666666666
<input type="checkbox"/>	KH027	Nguyen Van	G	Cần Thơ	gm1@gmail.com	777777777
<input type="checkbox"/>	KH028	Nguyen Van	H	Cần Thơ	hm1@gmail.com	888888888
<input type="checkbox"/>	KH029	Nguyen Van	K	Cần Thơ	km1@gmail.com	999999999
<input type="checkbox"/>	KH030	Nguyen Van	L	Đà Nẵng	lmv@gmail.com	101010101

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  - quanlybanhang\_test2
  - quanlybanhang\_test3
    - New
  - hoadon
  - hoadonchiet
  - khachhang
  - sanpham
- test
- test1
- test2

Database: quanlybanhang\_test3

Table: khachhang

	maKH	hoVaTenLot	ten	diachi	email	dienThoai
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	KH031	Nguyen Van	M	An Giang	mm1@gmail.com	121212121
<input type="checkbox"/>	KH032	Nguyen Van	N	An Giang	nm1@gmail.com	131313131
<input type="checkbox"/>	KH033	Nguyen Van	O	An Giang	omv@gmail.com	141414141
<input type="checkbox"/>	KH034	Nguyen Van	P	An Giang	pmv@gmail.com	151515151
<input type="checkbox"/>	KH035	Nguyen Van	Q	Đà Nẵng	qm1@gmail.com	161616161
<input type="checkbox"/>	KH036	Nguyen Van	R	An Giang	rmv@gmail.com	171717171
<input type="checkbox"/>	KH037	Nguyen Van	S	Cần Thơ	smv@gmail.com	181818181
<input type="checkbox"/>	KH038	Nguyen Van	T	Cần Thơ	tmv@gmail.com	191919191
<input type="checkbox"/>	KH039	Nguyen Van	U	Cần Thơ	umv@gmail.com	202020202
<input type="checkbox"/>	KH040	Nguyen Van	V	Cần Thơ	vmv@gmail.com	212121212

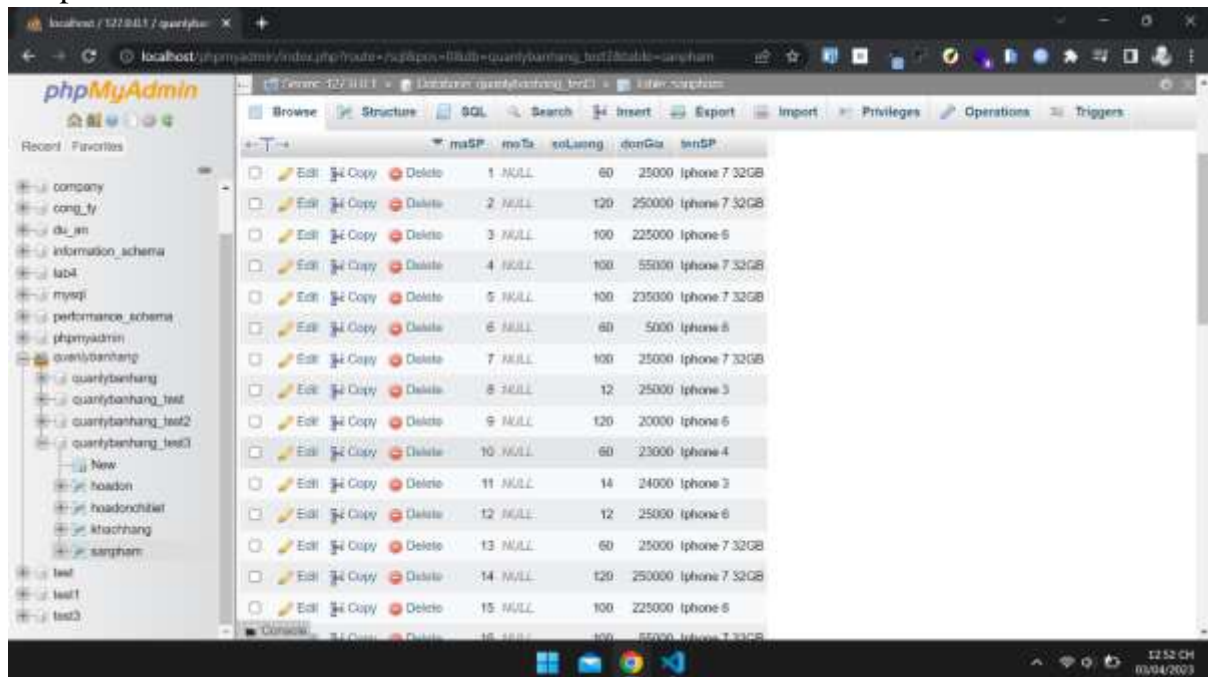
☐ Check all   With selected    Edit    Copy    Delete    Export

☒ Show all   Number of rows: All   Filter rows: Search this table   Sort by key: None

Query results operations:

Console    Copy to clipboard    Export    Display chart    Create view

Sanpham:



The screenshot shows the phpMyAdmin interface with the 'quanytdanh' database selected. The 'sanpham' table is displayed with the following data:

	id	maSP	moTa	soLuong	donGia	tenSP
<input type="checkbox"/>	1	NULL	60	25000	iphone 7 32GB	
<input type="checkbox"/>	2	NULL	120	250000	iphone 7 32GB	
<input type="checkbox"/>	3	NULL	100	225000	iphone 6	
<input type="checkbox"/>	4	NULL	100	55000	iphone 7 32GB	
<input type="checkbox"/>	5	NULL	100	235000	iphone 7 32GB	
<input type="checkbox"/>	6	NULL	60	5000	iphone 8	
<input type="checkbox"/>	7	NULL	100	25000	iphone 7 32GB	
<input type="checkbox"/>	8	NULL	12	25000	iphone 3	
<input type="checkbox"/>	9	NULL	120	20000	iphone 6	
<input type="checkbox"/>	10	NULL	60	23000	iphone 4	
<input type="checkbox"/>	11	NULL	14	24000	iphone 3	
<input type="checkbox"/>	12	NULL	12	25000	iphone 6	
<input type="checkbox"/>	13	NULL	60	25000	iphone 7 32GB	
<input type="checkbox"/>	14	NULL	120	250000	iphone 7 32GB	
<input type="checkbox"/>	15	NULL	100	225000	iphone 6	

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Database: quantybanhang\_test3

Table: sanpham

	maSP	maTa	soLuong	donGia	tenSP
<input type="checkbox"/>	16	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	17	NULL	100	235000	iphone 7 32GB
<input type="checkbox"/>	18	NULL	60	5000	iphone 6
<input type="checkbox"/>	19	NULL	100	25000	iphone 7 32GB
<input type="checkbox"/>	20	NULL	12	25000	iphone 3
<input type="checkbox"/>	21	NULL	60	25000	iphone 7 32GB
<input type="checkbox"/>	22	NULL	120	250000	iphone 7 32GB
<input type="checkbox"/>	23	NULL	100	225000	iphone 6
<input type="checkbox"/>	24	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	25	NULL	100	235000	iphone 7 32GB
<input type="checkbox"/>	26	NULL	60	5000	iphone 6
<input type="checkbox"/>	27	NULL	100	25000	iphone 7 32GB
<input type="checkbox"/>	28	NULL	12	25000	iphone 3
<input type="checkbox"/>	29	NULL	120	20000	iphone 6
<input type="checkbox"/>	30	NULL	60	23000	iphone 4

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Database: quantybanhang\_test3

Table: sanpham

	maSP	maTa	soLuong	donGia	tenSP
<input type="checkbox"/>	31	NULL	14	24000	iphone 3
<input type="checkbox"/>	32	NULL	12	25000	iphone 6
<input type="checkbox"/>	33	NULL	60	25000	iphone 7 32GB
<input type="checkbox"/>	34	NULL	120	250000	iphone 7 32GB
<input type="checkbox"/>	35	NULL	100	225000	iphone 6
<input type="checkbox"/>	36	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	37	NULL	100	235000	iphone 7 32GB
<input type="checkbox"/>	38	NULL	60	5000	iphone 6
<input type="checkbox"/>	39	NULL	100	25000	iphone 7 32GB
<input type="checkbox"/>	40	NULL	12	25000	iphone 3

☐ Check all   With selected   Edit   Copy   Delete   Export

☒ Show all   Number of rows: All   Filter rows: Search this table   Sort by key: None

Query results operations

☐ Copy to clipboard   Export   Display chart   Create view



Bai1:

```
-- a
SELECT HD.maHD, HD.maKH, HD.trangThai,
HDCT.maSP, HDCT.soLuong, HD.ngayMuaHang
FROM hoadon HD
JOIN hoadonchitiet HDCT ON HD.maHD = HDCT.maHD;

-- b
SELECT HD.maHD, HD.maKH, HD.trangThai,
HDCT.maSP, HDCT.soLuong, HD.ngayMuaHang
FROM hoadon HD
JOIN hoadonchitiet HDCT ON HD.maHD = HDCT.maHD AND HD.maKH = 'KH001';

-- c
SELECT HD.maHD, HD.ngayMuaHang, SP.tenSP, SP.donGia,
HDCT.soLuong, SP.dongia * HDCT.soLuong AS 'Thanh tien'
FROM hoadon HD
JOIN hoadonchitiet HDCT ON HD.maHD = HDCT.maHD
JOIN sanpham SP ON HDCT.maSP = SP.maSP;

-- d
SELECT CONCAT(KH.hoVaTenLot, ' ', KH.ten) AS 'Ho va ten',
KH.email, KH.dienThoai, HDCT.maHD, HD.trangThai,
SP.dongia * HDCT.soLuong AS 'Tong tien'
FROM khachhang KH
JOIN hoadon HD ON HD.trangThai = 'Chưa thanh toán' AND HD.maKH =
KH.maKH
JOIN hoadonchitiet HDCT ON HDCT.maHD = HD.maHD
JOIN sanpham SP ON SP.maSP = HDCT.maSP;

-- e
SELECT HD.maHD, HD.ngayMuaHang,
SP.donGia * SP.soLuong AS 'Tong Tien'
FROM hoadon HD
JOIN hoadonchitiet HDCT ON HD.maHD = HDCT.maHD
JOIN sanpham SP ON HDCT.maSP = SP.maSP
AND SP.donGia * SP.soLuong >= 500000;
```

Bai2:

```
-- a
SELECT khachhang.* FROM khachhang
inner JOIN hoadon ON hoadon.maKH = khachhang.maKH
WHERE khachhang.maKH NOT IN (
    SELECT hoadon.maKH FROM hoadon
    WHERE hoadon.ngayMuaHang >= '2016-01-01'
);

-- b
```

```

SELECT sanpham.maSP, sanpham.tenSP FROM sanpham
JOIN hoadonchitiet ON hoadonchitiet.maSP = sanpham.maSP
JOIN hoadon ON hoadon.maHD = hoadonchitiet.maHD
AND hoadon.ngayMuaHang LIKE '2016-12%'
WHERE sanpham.soLuong IN (
    SELECT MAX(hoadonchitiet.soLuong)
    FROM hoadonchitiet
    WHERE hoadonchitiet.maHD IN (
        SELECT hoadon.maHD FROM hoadon
        WHERE hoadon.ngayMuaHang LIKE '2016-12%'
    )
);

-- c
SELECT KH.*, SUM(SP.soLuong * SP.donGia) AS 'So tien'
FROM khachhang KH
JOIN hoadon HD ON HD.maKH = KH.maKH
JOIN hoadonchitiet HDCT ON HD.maHD = HDCT.maHD
JOIN sanpham SP ON SP.maSP = HDCT.maSP
WHERE HD.ngayMuaHang LIKE '2016%'
GROUP BY KH.maKH
ORDER BY SUM(SP.soLuong * SP.donGia) DESC
LIMIT 5;

-- d
SELECT KH.* FROM khachhang KH
INNER JOIN hoadon HD ON KH.maKH = HD.maKH
JOIN hoadonchitiet HDCT ON HDCT.maHD = HD.maHD
JOIN sanpham SP ON SP.maSP = HDCT.maSP
WHERE KH.diaChi = 'Đà Nẵng'
AND SP.tenSP = 'Iphone 7 32GB'
AND HD.ngayMuaHang LIKE '2016-12%';

-- e
SELECT sanpham.tenSP FROM sanpham
GROUP BY sanpham.tenSP
HAVING SUM(sanpham.soLuong) < (
    SELECT AVG(sanpham.soLuong) FROM sanpham
);

```