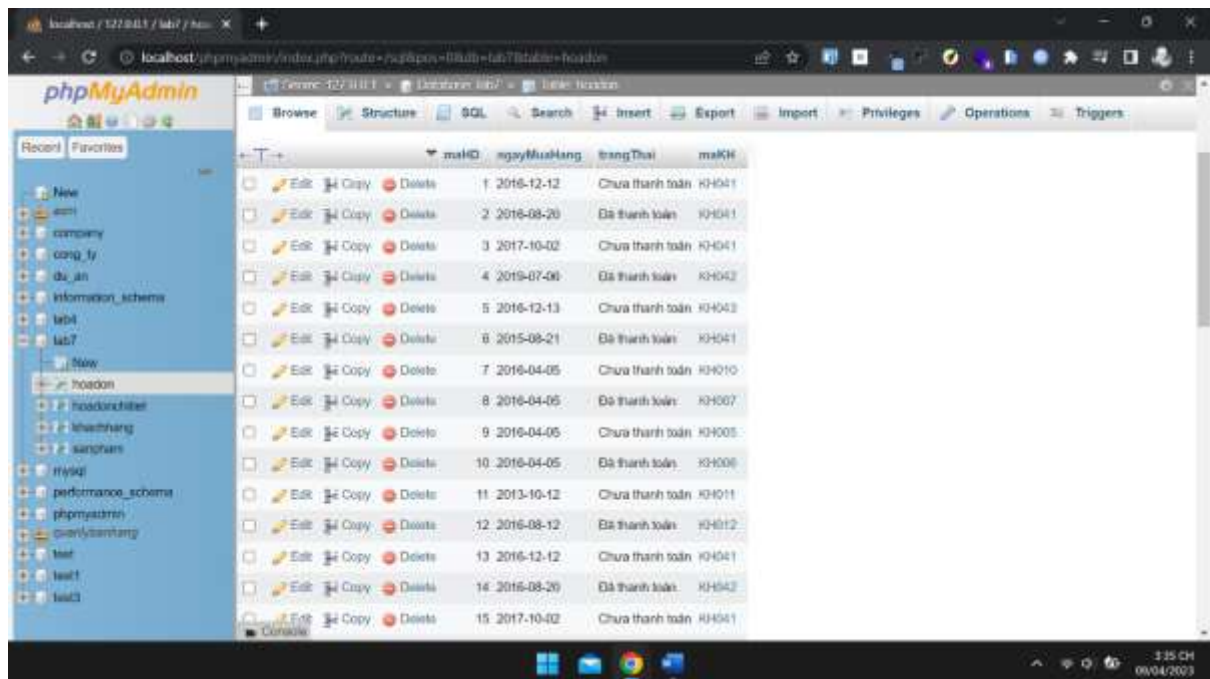


Ban ghi:

Hoadon:



maHD	ngayMuehang	trangThai	maKH
1	2016-12-12	Chưa thanh toán	KH041
2	2016-08-20	Đã thanh toán	KH041
3	2017-10-02	Chưa thanh toán	KH041
4	2019-07-06	Đã thanh toán	KH042
5	2016-12-13	Chưa thanh toán	KH043
6	2015-08-21	Đã thanh toán	KH041
7	2016-04-05	Chưa thanh toán	KH010
8	2016-04-05	Đã thanh toán	KH007
9	2016-04-05	Chưa thanh toán	KH005
10	2016-04-05	Đã thanh toán	KH006
11	2013-10-12	Chưa thanh toán	KH011
12	2016-08-12	Đã thanh toán	KH012
13	2016-12-12	Chưa thanh toán	KH041
14	2016-08-20	Đã thanh toán	KH042
15	2017-10-02	Chưa thanh toán	KH041

localhost / 127.0.0.1 / localhost / phpMyAdmin / index.php?route=/sql&pos=tbl&tbl=tbl7&table=hoadon

phpMyAdmin

Recent Favorites

- New
- ecom
- company
- cong_ty
- du_an
- information_schema
- tbl4
- tbl7
- New
- hoadon
- hoadonchiet
- khachhang
- sanpham
- mysql
- performance_schema
- phpmyadmin
- quay_sam_hang
- test
- test1
- test3

maHD ngayMuaHang bangThai maKH

<input type="checkbox"/>	Edit	Copy	Delete	16	2012-07-00	Đã thanh toán	KH001
<input type="checkbox"/>	Edit	Copy	Delete	17	2016-10-13	Chưa thanh toán	KH041
<input type="checkbox"/>	Edit	Copy	Delete	18	2014-08-21	Đã thanh toán	KH041
<input type="checkbox"/>	Edit	Copy	Delete	19	2016-04-05	Chưa thanh toán	KH010
<input type="checkbox"/>	Edit	Copy	Delete	20	2013-04-05	Đã thanh toán	KH007
<input type="checkbox"/>	Edit	Copy	Delete	21	2016-12-12	Chưa thanh toán	KH011
<input type="checkbox"/>	Edit	Copy	Delete	22	2016-08-20	Đã thanh toán	KH021
<input type="checkbox"/>	Edit	Copy	Delete	23	2017-10-02	Chưa thanh toán	KH031
<input type="checkbox"/>	Edit	Copy	Delete	24	2019-07-06	Đã thanh toán	KH022
<input type="checkbox"/>	Edit	Copy	Delete	25	2016-12-13	Chưa thanh toán	KH033
<input type="checkbox"/>	Edit	Copy	Delete	26	2015-08-21	Đã thanh toán	KH040
<input type="checkbox"/>	Edit	Copy	Delete	27	2016-04-05	Chưa thanh toán	KH032
<input type="checkbox"/>	Edit	Copy	Delete	28	2016-04-05	Đã thanh toán	KH043
<input type="checkbox"/>	Edit	Copy	Delete	29	2016-04-05	Chưa thanh toán	KH023
<input type="checkbox"/>	Edit	Copy	Delete	30	2016-04-05	Đã thanh toán	KH005

localhost / 127.0.0.1 / localhost / phpMyAdmin / index.php?route=/sql&pos=tbl&tbl=tbl7&table=hoadon

phpMyAdmin

Recent Favorites

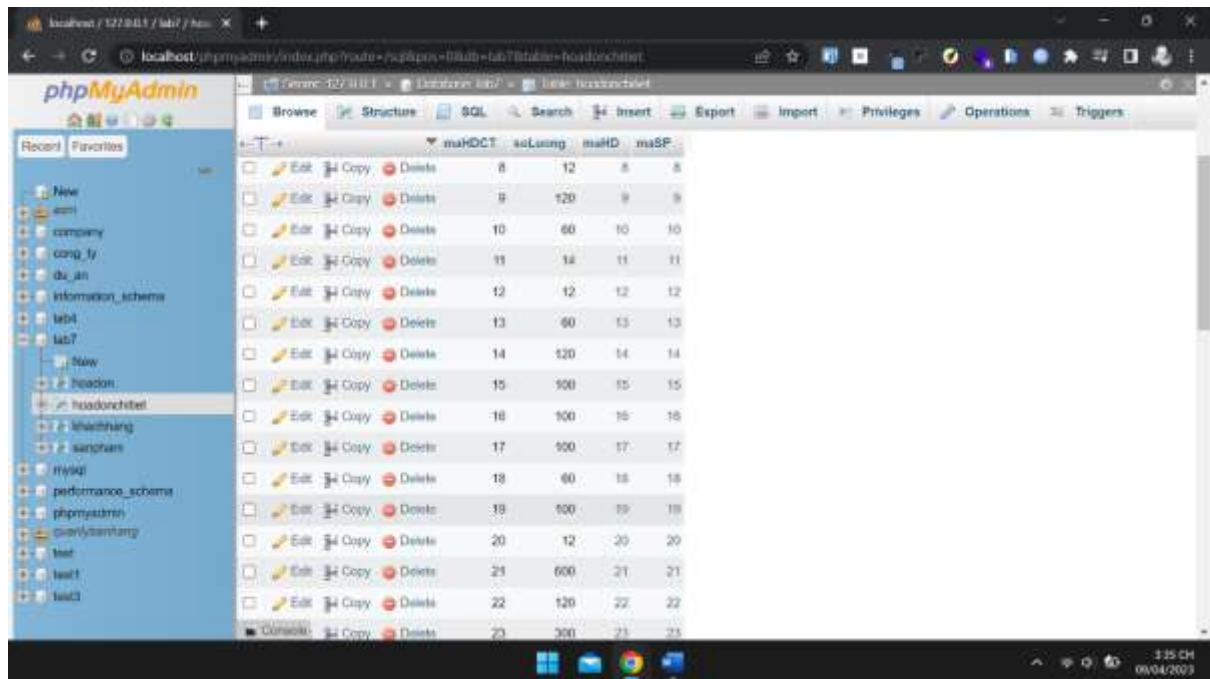
- New
- ecom
- company
- cong_ty
- du_an
- information_schema
- tbl4
- tbl7
- New
- hoadon
- hoadonchiet
- khachhang
- sanpham
- mysql
- performance_schema
- phpmyadmin
- quay_sam_hang
- test
- test1
- test3

maHD ngayMuaHang bangThai maKH

<input type="checkbox"/>	Edit	Copy	Delete	27	2016-04-05	Chưa thanh toán	KH032
<input type="checkbox"/>	Edit	Copy	Delete	28	2016-04-05	Đã thanh toán	KH043
<input type="checkbox"/>	Edit	Copy	Delete	29	2016-04-05	Chưa thanh toán	KH023
<input type="checkbox"/>	Edit	Copy	Delete	30	2016-04-05	Đã thanh toán	KH005
<input type="checkbox"/>	Edit	Copy	Delete	31	2013-10-12	Chưa thanh toán	KH016
<input type="checkbox"/>	Edit	Copy	Delete	32	2016-08-12	Đã thanh toán	KH020
<input type="checkbox"/>	Edit	Copy	Delete	33	2016-12-12	Chưa thanh toán	KH031
<input type="checkbox"/>	Edit	Copy	Delete	34	2016-08-20	Đã thanh toán	KH042
<input type="checkbox"/>	Edit	Copy	Delete	35	2017-10-02	Chưa thanh toán	KH081
<input type="checkbox"/>	Edit	Copy	Delete	36	2012-07-06	Đã thanh toán	KH031
<input type="checkbox"/>	Edit	Copy	Delete	37	2016-10-13	Chưa thanh toán	KH021
<input type="checkbox"/>	Edit	Copy	Delete	38	2014-08-21	Đã thanh toán	KH033
<input type="checkbox"/>	Edit	Copy	Delete	39	2016-04-05	Chưa thanh toán	KH040
<input type="checkbox"/>	Edit	Copy	Delete	40	2013-04-05	Đã thanh toán	KH037

1 selected: Edit Copy Delete Export

Hoadonchitiet:



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

id	soluong	maHD	maSP
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
16	100	16	16
17	100	17	17
18	60	18	18
19	100	19	19
20	12	20	20
21	600	21	21
22	120	22	22
23	300	23	23

localhost / 127.0.0.1 / lab7 / hdu

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=lab7&table=headonchitel

phpMyAdmin

Recent Favorites

- New
- ecom
- company
- cong_ly
- du_an
- information_schema
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- lab7
 - New
 - headon
 - headonchitel
 - khienhang
 - sangpham
- mysql
- performance_schema
- phpmyadmin
- quaydsangpham
- test
- test1
- test3

maHDCT soLuuang maHD maSP

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24	420	24	24
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25	10	25	25
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26	90	26	26
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27	200	27	27
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28	120	28	28
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29	110	29	29
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30	600	30	30
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31	140	31	31
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32	612	32	32
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33	620	33	33
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	34	1250	34	34
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	35	1020	35	35
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36	1040	36	36
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37	1040	37	37
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	38	601	38	38
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	39	1020	39	39

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localhost / 127.0.0.1 / lab7 / hdu

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=lab7&table=headonchitel

phpMyAdmin

Recent Favorites

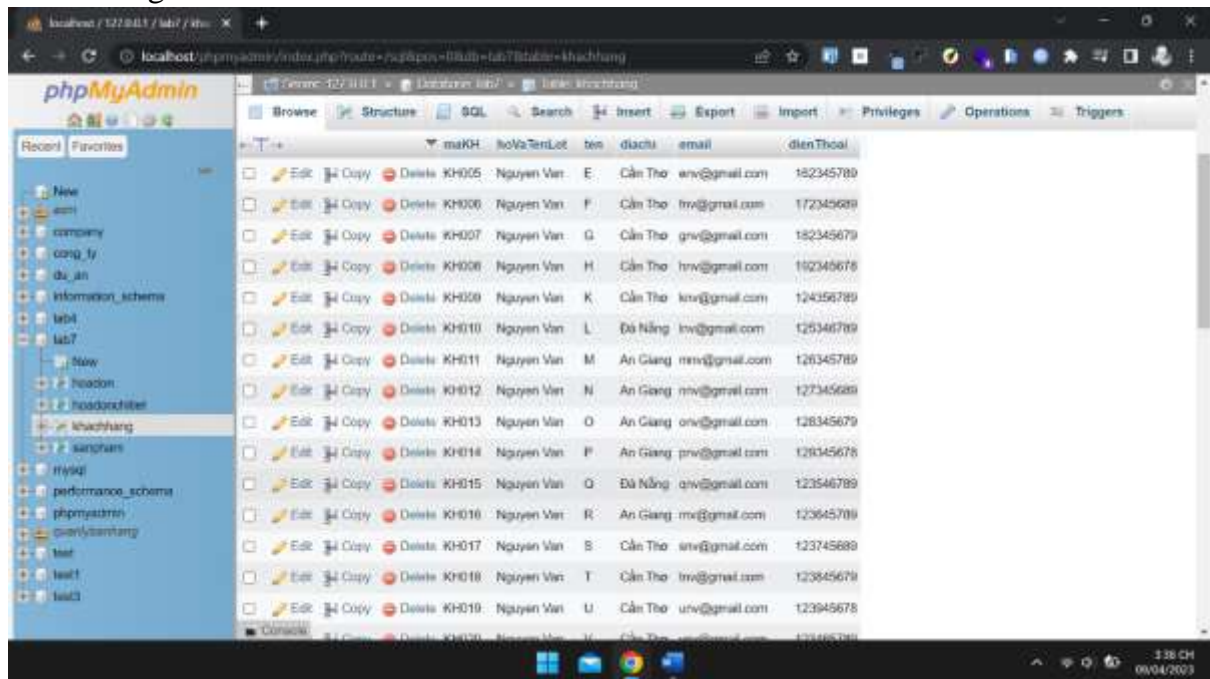
- New
- ecom
- company
- cong_ly
- du_an
- information_schema
- lab4
- lab7
 - New
 - headon
 - headonchitel
 - khienhang
 - sangpham
- mysql
- performance_schema
- phpmyadmin
- quaydsangpham
- test
- test1
- test3

maHDCT soLuuang maHD maSP

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33	620	33	33
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	34	1250	34	34
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	35	1020	35	35
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36	1040	36	36
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37	1040	37	37
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	38	601	38	38
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	39	1020	39	39
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40	124	40	40
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41	60	8	8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42	520	9	9
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	43	100	10	10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	44	100	11	11
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	45	100	12	12
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	46	60	13	13
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	47	100	14	14

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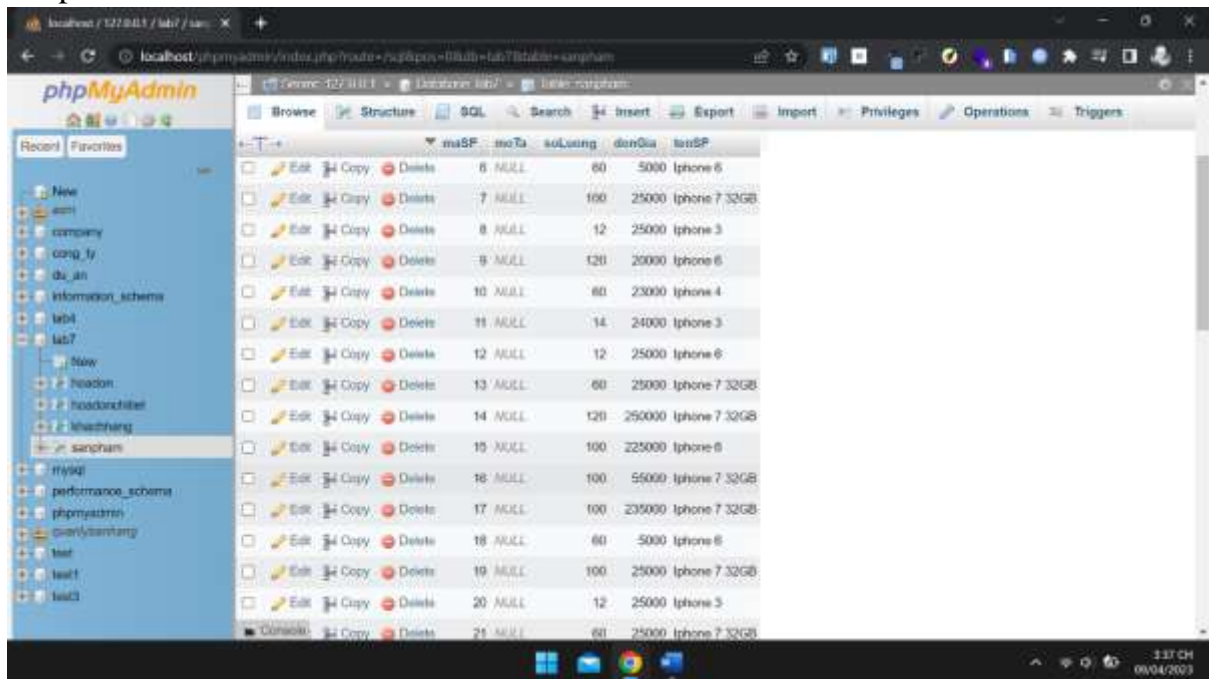
Khachhang:



The screenshot shows the phpMyAdmin interface for a database named 'lab7'. The 'khachhang' table is selected, and its structure is displayed. The table has 6 columns: mãKH, họVaTenLot, ten, diachi, email, and dienThoai. There are 15 records in the table, each with a unique mãKH (KH005 to KH019), a last name (Nguyễn Văn), a first name (E, F, G, H, K, L, M, N, O, P, Q, R, S, T, U), a location (Cần Thơ, Đà Nẵng, An Giang), an email address, and a phone number.

mãKH	họVaTenLot	ten	diachi	email	dienThoai
KH005	Nguyễn Văn	E	Cần Thơ	enw@gmail.com	182345789
KH006	Nguyễn Văn	F	Cần Thơ	fnw@gmail.com	172345689
KH007	Nguyễn Văn	G	Cần Thơ	gnw@gmail.com	182345679
KH008	Nguyễn Văn	H	Cần Thơ	hnw@gmail.com	182345678
KH009	Nguyễn Văn	K	Cần Thơ	knw@gmail.com	124356789
KH010	Nguyễn Văn	L	Đà Nẵng	lnw@gmail.com	125346789
KH011	Nguyễn Văn	M	An Giang	mnw@gmail.com	126345789
KH012	Nguyễn Văn	N	An Giang	nnw@gmail.com	127345689
KH013	Nguyễn Văn	O	An Giang	onw@gmail.com	128345679
KH014	Nguyễn Văn	P	An Giang	pnw@gmail.com	129345678
KH015	Nguyễn Văn	Q	Đà Nẵng	qnw@gmail.com	123346789
KH016	Nguyễn Văn	R	An Giang	rnw@gmail.com	123645789
KH017	Nguyễn Văn	S	Cần Thơ	snw@gmail.com	123745689
KH018	Nguyễn Văn	T	Cần Thơ	tnw@gmail.com	123845679
KH019	Nguyễn Văn	U	Cần Thơ	unw@gmail.com	123945678

Sanpham:



	maSP	maTa	soLuong	donGia	tenSP
<input type="checkbox"/>	6	NULL	60	5000	Iphone 6
<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
<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

localhost / 127.0.0.1 / tab7 / san

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=tab7&table=sanham

phpMyAdmin

Recent Favorites

- New
- san
- company
- cong_ty
- du_an
- information_schema
- tab4
- tab7
 - New
 - headon
 - headonchitel
 - khachhang
 - sanham
- mysql
- performance_schema
- phpmyadmin
- querry/sanham
- test
- test1
- test3

maSP moTa soLuong donGia taxSP

<input type="checkbox"/>	Edit	Copy	Delete	22	NULL	120	250000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	23	NULL	100	225000	iphone 6
<input type="checkbox"/>	Edit	Copy	Delete	24	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	25	NULL	100	235000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	26	NULL	60	5000	iphone 6
<input type="checkbox"/>	Edit	Copy	Delete	27	NULL	100	25000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	28	NULL	12	25000	iphone 3
<input type="checkbox"/>	Edit	Copy	Delete	29	NULL	120	20000	iphone 6
<input type="checkbox"/>	Edit	Copy	Delete	30	NULL	60	23000	iphone 4
<input type="checkbox"/>	Edit	Copy	Delete	31	NULL	14	24000	iphone 3
<input type="checkbox"/>	Edit	Copy	Delete	32	NULL	12	25000	iphone 6
<input type="checkbox"/>	Edit	Copy	Delete	33	NULL	60	25000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	34	NULL	120	250000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	35	NULL	100	225000	iphone 8
<input type="checkbox"/>	Edit	Copy	Delete	36	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	37	NULL	100	235000	iphone 7 32GB

localhost / 127.0.0.1 / tab7 / san

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=tab7&table=sanham

phpMyAdmin

Recent Favorites

- New
- san
- company
- cong_ty
- du_an
- information_schema
- tab4
- tab7
 - New
 - headon
 - headonchitel
 - khachhang
 - sanham
- mysql
- performance_schema
- phpmyadmin
- querry/sanham
- test
- test1
- test3

maSP moTa soLuong donGia taxSP

<input type="checkbox"/>	Edit	Copy	Delete	35	NULL	100	225000	iphone 8
<input type="checkbox"/>	Edit	Copy	Delete	36	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	37	NULL	100	235000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	38	NULL	60	5000	iphone 6
<input type="checkbox"/>	Edit	Copy	Delete	39	NULL	100	25000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	40	NULL	12	25000	iphone 3
<input type="checkbox"/>	Edit	Copy	Delete	41	NULL	60	25000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	42	NULL	120	250000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	43	NULL	100	225000	iphone 6
<input type="checkbox"/>	Edit	Copy	Delete	44	NULL	100	55000	iphone 7 32GB
<input type="checkbox"/>	Edit	Copy	Delete	45	NULL	100	235000	iphone 7 32GB

☐ 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

Bai1:

```
-- a
-- khachhang
INSERT INTO khachhang
VALUES ('KH001', 'Nguyễn Thị', 'Nga', '15 Quang Trung TP Đà Nẵng',
'ngant@gmail.com', 0912345670);
INSERT INTO khachhang
VALUES ('KH002', 'Trần Công', 'Thành', '234 Lê Lợi Quảng Nam',
'thanhtc@gmail.com', 1610942344);
INSERT INTO khachhang
VALUES ('KH003', 'Lê Hoàng', 'Nam', '23 Trần Phú TP Huế',
'namt@gmail.com', 0989354556);
INSERT INTO khachhang
VALUES ('KH004', 'Vũ Ngọc', 'Hiền', '37 Nguyễn Thị Thập TP Đà Nẵng',
'hienvn@gmail.com', 0894545435);

-- sanpham
INSERT INTO sanpham
VALUES (1, 'Samsung Galaxy J7 Pro là một chiếc
smartphone phù hợp với những người
yêu thích một sản phẩm pin tốt, thích
hệ điều hành mới cùng những tính
năng đi kèm độc quyền', 800, 6600000, 'Samsung Galaxy J7 Pro');

INSERT INTO sanpham (maSP, moTa)
VALUES (2, 'iPhone 6 là một trong những
smartphone được yêu thích nhất.
Lắng nghe nhu cầu về thiết kế, khả
năng lưu trữ và giá cả, iPhone 6
32GB được chính thức phân phối
chính hãng tại Việt Nam hứa hẹn sẽ
là một sản phẩm rất "Hot"');

INSERT INTO sanpham
VALUES (3, 'Dell Inspiron 3467 i3
7100U/4GB/1TB/Win10/(M20NR21)', 507, 11290000,
'Laptop Dell Inspiron 3467');

INSERT INTO sanpham
VALUES (4, 'Pin sạc dự phòng Polymer 5.000
mAh eSaver JP85', 200, 200000, 'Pin sạc dự phòng');

INSERT INTO sanpham
VALUES (5, 'Nokia 3100 phù hợp với SINH VIÊN', 100, 700000, 'Nokia
3100');

-- hoadon
INSERT INTO hoadon
```

```

VALUES (120954, '2016-03-23', 'Đã thanh toán', 'KH001');
INSERT INTO hoadon
VALUES (120955, '2016-04-02', 'Đã thanh toán', 'KH002');
INSERT INTO hoadon
VALUES (120956, '2016-07-12', 'Chưa thanh toán', 'KH001');
INSERT INTO hoadon
VALUES (120957, '2016-12-04', 'Chưa thanh toán', 'KH004');

-- hoadonchitiet
INSERT INTO hoadonchitiet
VALUES (1, 40, 120954, 3);

INSERT INTO hoadonchitiet
VALUES (2, 20, 120954, 1);

INSERT INTO hoadonchitiet
VALUES (3, 100, 120955, 2);

INSERT INTO hoadonchitiet
VALUES (4, 6, 120956, 4);

INSERT INTO hoadonchitiet
VALUES (5, 60, 120956, 2);

INSERT INTO hoadonchitiet
VALUES (6, 10, 120956, 1);

INSERT INTO hoadonchitiet
VALUES (7, 50, 120957, 2);

-- b
CREATE TABLE khachhang_danang
AS SELECT * FROM khachhang
WHERE diaChi LIKE '%Đà Nẵng%';

```

Bai2:

```

-- a
UPDATE khachhang
SET dienThoai = 1626778898
WHERE maKH = 'KH002';

-- b
UPDATE sanpham
SET soLuong = soLuong + 200
WHERE maSp = 3;

-- c
UPDATE sanpham
SET donGia = donGia * 95 / 100;

```

```

-- d
UPDATE sanpham
SET sanpham.soLuong = sanpham.soLuong + 100
WHERE sanpham.maSP IN (
    SELECT hoadonchitiet.maSP FROM hoadonchitiet
    WHERE hoadonchitiet.maHD IN (
        SELECT hoadon.maHD FROM hoadon
        WHERE hoadon.ngayMuaHang LIKE '2016-12%'
    )
    HAVING MAX(hoadonchitiet.soLuong)
);

-- e: error
UPDATE sanpham
SET donGia = donGia * 90 / 100
WHERE maSP IN (
    SELECT sanpham.maSP FROM sanpham
    INNER JOIN hoadonchitiet ON hoadonchitiet.maSP = sanpham.maSP
    INNER JOIN hoadon ON hoadon.maHD = hoadonchitiet.maHD
    WHERE hoadon.ngayMuaHang LIKE '2016%'
    GROUP BY hoadonchitiet.maSP
    ORDER BY SUM(hoadonchitiet.soLuong)
    LIMIT 2
);

-- f
UPDATE hoadon
SET trangThai = 'Đã thanh toán'
WHERE maHD = 120956;

-- g
DELETE FROM hoadonchitiet
WHERE maHDCT IN (
    SELECT hoadonchitiet.maHDCT FROM hoadonchitiet
    JOIN hoadon ON hoadon.maHD = hoadonchitiet.maHD
    WHERE hoadonchitiet.maHD = 120956
    AND hoadonchitiet.maSP = 2
    AND hoadon.trangThai = 'Chưa thanh toán'
);

-- h
DELETE FROM khachhang
WHERE maKH IN (
    SELECT khachhang.maKH 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'  
)  
);
```