

IBM19LS057

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17-8

CSE

DBMS Lab Test-2

Ans:

```
CREATE DATABASE ORDER-PROCESSING;
```

```
USE ORDER-PROCESSING;
```

```
CREATE TABLE CUSTOMER (
```

```
cust-id cust_id INT PRIMARY KEY,
```

```
cname VARCHAR(20),
```

```
city VARCHAR(20)
```

```
);
```

```
CREATE TABLE ORDER (
```

```
order-no INT PRIMARY KEY,
```

```
odate date,
```

```
cust-no INT, order-amt INT,
```

```
FOREIGN KEY (cust-no) REFERENCES CUSTOMER (cust-id) ON
```

```
DELETE SET NULL ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE ITEM (
```

```
item-no INT PRIMARY KEY,
```

```
price INT
```

```
);
```

```
CREATE TABLE ORDER-ITEM (
```

```
order-no INT,
```

```
item-no INT,
```

```
qty INT,
```

FOREIGN KEY (order-no) REFERENCE ORDERS (order-no) ON DELETE

SET NULL ON UPDATE CASCADE

FOREIGN KEY (item-no) REFERENCE ITEM (item-no) ON DELETE SET

NULL ON UPDATE CASCADE;

);

CREATE TABLE WAREHOUSE (

warehouse-no INT PRIMARY KEY

city VARCHAR(30)

);

CREATE TABLE SHIPMENT (

order-no INT,

warehouse-no INT,

date DATE,

FOREIGN KEY (order-no) REFERENCE ORDERS (order-no) ON
DELETE SET NULL ON UPDATE CASCADE

FOREIGN KEY (warehouse-no) REFERENCE WAREHOUSE (warehouse-no)
ON DELETE SET NULL ON UPDATE CASCADE

);

INSERT INTO CUSTOMER VALUES (771, "PUSHPA K", "BANGALORE")
INSERT INTO CUSTOMER VALUES (772, "SUMAN", "MUMBAI")
INSERT INTO CUSTOMER VALUES (773, "SOURAV", "CHENNAI")
INSERT INTO CUSTOMER VALUES (774, "LALITA", "HYDERABAD")
INSERT INTO CUSTOMER VALUES (775, "FAIZAL", "BANGALORE");

INSERT INTO ORDERS VALUES (111, '2002-01-22', 771, 18000);
 INSERT INTO ORDERS VALUES (112, '2002-07-30', 774, 6000);
 INSERT INTO ORDERS VALUES (113, '2003-04-08', 775, 9000);
 INSERT INTO ORDERS VALUES (114, '2003-11-03', 775, 29000);
 INSERT INTO ORDERS VALUES (115, '2003-12-10', 773, 29000);
 INSERT INTO ORDERS VALUES (116, '2004-08-19', 772, 56000);
 INSERT INTO ORDERS VALUES (117, '2004-09-10', 771, 20000);
 INSERT INTO ORDERS VALUES (118, '2004-11-20', 775, 29000);
 INSERT INTO ORDERS VALUES (119, '2005-02-13', 774, 29000);
 INSERT INTO ORDERS VALUES (120, '2005-10-13', 775, 29000);

INSERT INTO ITEM VALUES (5001, 503)
 INSERT INTO ITEM VALUES (5002, 750)
 INSERT INTO ITEM VALUES (5003, 150)
 INSERT INTO ITEM VALUES (5004, 600);
 INSERT INTO ITEM VALUES (~~5005~~¹⁰, 810);

INSERT INTO ORDER-ITEM VALUES (111, 5001, 50);
 INSERT INTO ORDER-ITEM VALUES (112, 5003, 20);
 INSERT INTO ORDER-ITEM VALUES (113, 5002, 50);
 INSERT INTO ORDER-ITEM VALUES (114, ~~5005~~¹⁰, 60);
 INSERT INTO ORDER-ITEM VALUES (115, 5004, 90);
 INSERT INTO ORDER-ITEM VALUES (116, 5001, 10);
 INSERT INTO ORDER-ITEM VALUES (117, 5003, 80);
 INSERT INTO ORDER-ITEM VALUES (118, ~~5005~~¹⁰, 50);
 INSERT INTO ORDER-ITEM VALUES (119, 5003, 10);
 INSERT INTO ORDER-ITEM VALUES (120, 5004, 45);

```

INSERT INTO WAREHOUSE VALUES (1, 'DELHI');
INSERT INTO WAREHOUSE VALUES (2, 'MUMBAI');
INSERT INTO WAREHOUSE VALUES (3, 'CHENNAI');
INSERT INTO WAREHOUSE VALUES (4, 'BANGALORE');
INSERT INTO WAREHOUSE VALUES (5, 'BANGALORE');
INSERT INTO WAREHOUSE VALUES (6, 'DELHI');
INSERT INTO WAREHOUSE VALUES (7, 'MUMBAI');
INSERT INTO WAREHOUSE VALUES (8, 'CHENNAI');
INSERT INTO WAREHOUSE VALUES (9, 'DELHI');
INSERT INTO WAREHOUSE VALUES (10, 'BANGALORE');
INSERT INTO SHIPMENT VALUES (111, 1, '2002-02-10');
INSERT INTO SHIPMENT VALUES (112, 5, '2002-09-10');
INSERT INTO SHIPMENT VALUES (113, 8, '2003-02-10');
INSERT INTO SHIPMENT VALUES (114, 3, '2003-12-10');
INSERT INTO SHIPMENT VALUES (115, 9, '2004-01-19');
INSERT INTO SHIPMENT VALUES (116, 1, '2004-09-20');
INSERT INTO SHIPMENT VALUES (117, 5, '2004-09-10');
INSERT INTO SHIPMENT VALUES (118, 7, '2004-11-30');
INSERT INTO SHIPMENT VALUES (119, 7, '2005-04-30');
INSERT INTO SHIPMENT VALUES (120, 6, '2005-12-21');

```

// Query 3:

```

select c.name, COUNT (o.order_no), AVG (o.order_amt) from
CUSTOMERS c, ORDERS o
where c.cust_id = o.cust_no
GROUP BY o.cust_no;

```


// Query 4:

```
select s.order-no FROM SHIPMENT S, WAREHOUSE W  
where s.warehouse-no = w.warehouse-no  
AND  
w.city = 'BANGALORE';
```

// Query 5:

```
Delete from ITEM  
where item-no = 10;  
select * from order-item;
```

// Query 6:

```
select i.item-no, oi.order-no, s.warehouse-no, s.date,  
avg(oi.qty * i.price) from order-item oi inner join item i  
on i.item-no = oi.item-no inner join shipment s on  
s.order-no = oi.order-no group by i.item-no;
```

localhost / 127.0.0.1 / order_pro... X +

localhost/phpmyadmin/import.php#PMAURL=10:sql.php?db=order_processing&table=customer&server=1&target=&token=27bc6a759514f5754bc1d9cf9df9c6c

phpMyAdmin

Recent Favorites

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- movie
- mysql
- nodeapp
- order_processing
 - New
 - customer
 - item
 - orders
 - order_item
 - shipment

Server: 127.0.0.1 » Database: order_processing » Table: customer

Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)

SELECT * FROM `customer`

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

| | | cust_id | cname | city |
|--------------------------|------------------|---------|----------|-----------|
| <input type="checkbox"/> | Edit Copy Delete | 771 | PUSHPA K | BANGALORE |
| <input type="checkbox"/> | Edit Copy Delete | 772 | SUMAN | MUMBAI |
| <input type="checkbox"/> | Edit Copy Delete | 773 | SOURAV | CALICUT |
| <input type="checkbox"/> | Edit Copy Delete | 774 | LAILA | HYDERABAD |
| <input type="checkbox"/> | Edit Copy Delete | 775 | FAIZAL | BANGALORE |

Check All With selected: Change Delete Export

Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Print view (with full texts) Export Display chart Create view

localhost / 127.0.0.1 / order_pro... X +

localhost/phpmyadmin/import.php#PMAURL=11:sql.php?db=order_processing&table=item&server=1&target=&token=27bc6a759514f5754bc1d9cf9df9c6c

phpMyAdmin

Recent Favorites

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 - order_item
 - shipment
 - warehouse
- performance_schema
- phpmyadmin
- project_work
- student
- test

Server: 127.0.0.1 » Database: order_processing » Table: item

Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)

SELECT * FROM `item`

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

| | | item_no | price |
|--------------------------|------------------|---------|-------|
| <input type="checkbox"/> | Edit Copy Delete | 10 | 890 |
| <input type="checkbox"/> | Edit Copy Delete | 5001 | 503 |
| <input type="checkbox"/> | Edit Copy Delete | 5002 | 750 |
| <input type="checkbox"/> | Edit Copy Delete | 5003 | 150 |
| <input type="checkbox"/> | Edit Copy Delete | 5004 | 600 |

Check All With selected: Change Delete Export

Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Print view (with full texts) Export Display chart Create view

localhost/phpmyadmin/sql.php?server=1&db=order_processing&table=item&pos=0&token=27bc6a759514f5754bc1d9cf9df9c6c

localhost / 127.0.0.1 / order_proc... X +

localhost/phpmyadmin/import.php#PMAURL=12:sql.php?db=order_processing&table=orders&server=1&target=&token=27bc6a759514f5754bc1d9cf9df9c6c

phpMyAdmin

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- phpmyadmin
- project_work
- student
- test
- webauth

Server: 127.0.0.1 » Database: order_processing » Table: orders

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 9 (10 total. Query took 0.0003 seconds.)

`SELECT * FROM `orders``

☐ Profiling ☐ Inline ☐ Edit ☐ Explain SQL ☐ Create PHP Code ☐ Refresh

Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

| | order_no | odate | cust_no | order_amt |
|---|----------|------------|---------|-----------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 111 | 2002-01-22 | 771 | 18000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 112 | 2002-07-30 | 774 | 6000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 113 | 2003-04-03 | 775 | 9000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 114 | 2003-11-03 | 775 | 29000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 115 | 2003-12-10 | 773 | 29000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 116 | 2004-08-19 | 772 | 56000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 117 | 2004-09-10 | 771 | 20000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 118 | 2004-11-20 | 775 | 29000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 119 | 2005-02-13 | 774 | 29000 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 120 | 2005-10-13 | 775 | 29000 |

☐ Check All With selected: ☐ Change ☐ Delete ☐ Export

localhost / 127.0.0.1 / order_proc... X +

localhost/phpmyadmin/import.php#PMAURL=13:sql.php?db=order_processing&table=order_item&server=1&target=&token=27bc6a759514f5754bc1d9cf9df9c6c

phpMyAdmin

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 - New
 - customer
 - item
 - orders
 - order_item
 - shipment
 - warehouse
- performance_schema
- phpmyadmin
- project_work
- student
- test
- webauth

Server: 127.0.0.1 » Database: order_processing » Table: order_item

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

+ Options

| order_no | item_no | qty |
|----------|---------|-----|
| 111 | 5001 | 50 |
| 112 | 5003 | 20 |
| 113 | 5002 | 50 |
| 114 | 10 | 60 |
| 115 | 5004 | 90 |
| 116 | 5001 | 10 |
| 117 | 5003 | 80 |
| 118 | 10 | 50 |
| 119 | 5002 | 10 |
| 120 | 5004 | 45 |

Number of rows: 25 Filter rows: Search this table

Query results operations

☐ Print view ☐ Print view (with full texts) ☐ Export ☐ Display chart ☐ Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

localhost / 127.0.0.1 / order_proc... X

localhost/phpmyadmin/import.php?PMAURL=14:sql.php?db=order_processing&table=shipment&server=1&target=&token=27bc6a759514f5754bc1d9cff9df9c6c

Server: 127.0.0.1 » Database: order_processing » Table: shipment

Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

| order_no | warehouse_no | date |
|----------|--------------|------------|
| 111 | 1 | 2002-02-10 |
| 112 | 5 | 2002-09-10 |
| 113 | 8 | 2003-02-10 |
| 114 | 3 | 2003-12-10 |
| 115 | 9 | 2004-01-19 |
| 116 | 1 | 2004-09-20 |
| 117 | 5 | 2004-09-10 |
| 118 | 7 | 2004-11-30 |
| 119 | 7 | 2005-04-30 |
| 120 | 6 | 2005-12-21 |

Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Bookmark this SQL query

localhost / 127.0.0.1 / order_proc... X

localhost/phpmyadmin/import.php?PMAURL=15:sql.php?db=order_processing&table=warehouse&server=1&target=&token=27bc6a759514f5754bc1d9cff9df9c6c

Server: 127.0.0.1 » Database: order_processing » Table: warehouse

SELECT * FROM 'warehouse'

Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

| | warehouse_no | city |
|---|--------------|-----------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 1 | DELHI |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 2 | BOMBAY |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 3 | CHENNAI |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 4 | BANGALORE |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5 | BANGALORE |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 6 | DELHI |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 7 | BOMBAY |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 8 | CHENNAI |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 9 | DELHI |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 10 | BANGALORE |

Check All With selected: Change Delete Export

Number of rows: 25 Filter rows: Search this table

Query results operations

Query 3:

localhost / 127.0.0.1 / order_proc

localhost/phpmyadmin/import.php?PMAURL=19:db_sql.php?db=order_processing&table=&server=1&target=&token=27bc6a759514f5754bc1d9cff9df9c6c

Server: 127.0.0.1 Database: order_processing

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 4 (5 total, Query took 0.0597 seconds)

`SELECT c.cname,COUNT(o.order_no),AVG(o.order_amt) FROM CUSTOMER c,ORDERS o WHERE c.cust_id=o.cust_no GROUP BY o.cust_no`

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Number of rows: 25 Filter rows: Search this table

+ Options

| cname | COUNT(o.order_no) | AVG(o.order_amt) |
|----------|-------------------|------------------|
| PUSHPA K | 2 | 19000.0000 |
| SUMAN | 1 | 56000.0000 |
| SOURAV | 1 | 29000.0000 |
| LAILA | 2 | 17500.0000 |
| FAIZAL | 4 | 24000.0000 |

Number of rows: 25 Filter rows: Search this table

Query results operations

Query4:

localhost / 127.0.0.1 / order_proc

localhost/phpmyadmin/import.php?PMAURL=19:db_sql.php?db=order_processing&table=&server=1&target=&token=27bc6a759514f5754bc1d9cff9df9c6c

Server: 127.0.0.1 Database: order_processing

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds)

`SELECT s.order_no FROM SHIPMENT s,WAREHOUSE W WHERE s.warehouse_no=w.warehouse_no AND w.city='BANGALORE'`

[Inline] [Edit] [Create PHP Code]

Number of rows: 25 Filter rows: Search this table

+ Options

| order_no |
|----------|
| 112 |
| 117 |

Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Query 5:

localhost / 127.0.0.1 / order_proc

localhost/phpmyadmin/import.php#PMAURL=19:db_sql.php?db=order_processing&table=&server=1&target=&token=27bc6a759514f5754bc1d9cff9df9c6c

Server: 127.0.0.1 Database: order_processing

Structure SQL Search Query Export Import Operations Privileges Routines Events More

[Inline] [Edit] [Create PHP Code]

Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

| order_no | item_no | qty |
|----------|---------|-----|
| 111 | 5001 | 50 |
| 112 | 5003 | 20 |
| 113 | 5002 | 50 |
| 114 | NULL | 60 |
| 115 | 5004 | 90 |
| 116 | 5001 | 10 |
| 117 | 5003 | 80 |
| 118 | NULL | 50 |
| 119 | 5002 | 10 |
| 120 | 5004 | 45 |

Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Query 6:

localhost / 127.0.0.1 / order_proc

localhost/phpmyadmin/import.php#PMAURL=19:db_sql.php?db=order_processing&table=&server=1&target=&token=27bc6a759514f5754bc1d9cff9df9c6c

Server: 127.0.0.1 Database: order_processing

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0006 seconds)

```
select i.item_no, oi.order_no, s.warehouse_no, s.date, avg(oi.qty*i.price) from order_item oi inner join item i on i.item_no=oi.item_no inner join shipment s on s.order_no=oi.order_no group by i.item_no
```

☐ Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Number of rows: 25 Filter rows: Search this table

+ Options

| item_no | order_no | warehouse_no | date | avg(oi.qty*i.price) |
|---------|----------|--------------|------------|---------------------|
| 5001 | 111 | 1 | 2002-02-10 | 15090.0000 |
| 5002 | 113 | 8 | 2003-02-10 | 22500.0000 |
| 5003 | 112 | 5 | 2002-09-10 | 7500.0000 |
| 5004 | 115 | 9 | 2004-01-19 | 40500.0000 |

Number of rows: 25 Filter rows: Search this table

Query results operations