Employees TABLE :

CREATE TABLE employees(employee\_id int PRIMARY KEY ,name VARCHAR(30) , department\_id int , salary int)

INSERT INTO employees VALUES(101,"bob",1,70000),(102,"ben",1,75000),(103,"dani",2,60000),(104,"kelvin",3,80000)

| **[Full texts](http://localhost/phpmyadmin/index.php)** | | | | [**employee\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+%60employees%60++%0AORDER+BY+%60employees%60.%60employee_id%60+ASC&sql_signature=5475a5b93db047f60c8942090ae23c41b5b4df5fa99fc23de5d23d53a4f56681&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+%60employees%60++%0AORDER+BY+%60employees%60.%60name%60+ASC&sql_signature=6b4987a310a14926e697f2fadd9ac4e7e16528b64c995ba41c0038a890c60070&session_max_rows=25&is_browse_distinct=0) | [**department\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+%60employees%60++%0AORDER+BY+%60employees%60.%60department_id%60+ASC&sql_signature=29c19c49843b8d462e6b31a6cb6efe14b94f9644ecd9a4cd253a11c9b9f9031c&session_max_rows=25&is_browse_distinct=0) | [**salary**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+%60employees%60++%0AORDER+BY+%60employees%60.%60salary%60+ASC&sql_signature=d3a8943d1103b07b4992a4b8cd9c34e4479437a0b6b65f17a9989e7ce177982e&session_max_rows=25&is_browse_distinct=0) |  | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 101 | bob | 1 | 70000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 102 | ben | 1 | 75000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 103 | dani | 2 | 60000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 104 | kelvin | 3 | 80000 |  |  |  |  |

Departments TABLE :

CREATE TABLE departments(department\_id int , department\_name VARCHAR(30))

INSERT INTO departments VALUES(1,”HR”),(2,”engineering”),(3,”sales”)

| [**department\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=departments&sql_query=SELECT+%2A+FROM+%60departments%60++%0AORDER+BY+%60departments%60.%60department_id%60+ASC&sql_signature=370cf8262be5801dc58bc3a06344df1b266e141078889b7ac7fcaedeaa60606c&session_max_rows=25&is_browse_distinct=0) | [**department\_name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=departments&sql_query=SELECT+%2A+FROM+%60departments%60++%0AORDER+BY+%60departments%60.%60department_name%60+ASC&sql_signature=1f797417c50aeee741e3da9a0bbeaae8b63d36aae65e42b9381d9b27b9df7811&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- |
| 1 | HR |  |
| 2 | engineering |  |
| 3 | sales |  |

Customers TABLE :

CREATE TABLE customers(customer\_id int , name VARCHAR(30))

INSERT INTO customers VALUES(1,"john doe"),(2,"jame smith")

| [**customer\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=customers&sql_query=SELECT+%2A+FROM+%60customers%60++%0AORDER+BY+%60customers%60.%60customer_id%60+ASC&sql_signature=506d6900db57a55a0c5aba4a05e31f73ce72dd1412287ec641e69796269f5c0e&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=customers&sql_query=SELECT+%2A+FROM+%60customers%60++%0AORDER+BY+%60customers%60.%60name%60+ASC&sql_signature=157fea1f75b13c371d3c4486dec8e88ef6dd7c59126b852c847c364538348e15&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- |
| 1 | john doe |  |
| 2 | jame smith |  |

Orders TABLE :

CREATE TABLE orders (order\_id int, customer\_id int, order\_date date, total\_amount int)

INSERT INTO orders VALUES(201,1,"2025-07-01",300),(202,2,"2025-07-02",150)

| [**order\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=orders&sql_query=SELECT+%2A+FROM+%60orders%60++%0AORDER+BY+%60orders%60.%60order_id%60+ASC&sql_signature=63b347980fa36b7bb8aa76258e317d386f353e89b0b01f8ee733a96dc34da054&session_max_rows=25&is_browse_distinct=0) | [**customer\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=orders&sql_query=SELECT+%2A+FROM+%60orders%60++%0AORDER+BY+%60orders%60.%60customer_id%60+ASC&sql_signature=eccb3b71406660dc5f825f008c7338e0859c79fb6b994c502ef3b31c33931cc5&session_max_rows=25&is_browse_distinct=0) | [**order\_date**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=orders&sql_query=SELECT+%2A+FROM+%60orders%60++%0AORDER+BY+%60orders%60.%60order_date%60+DESC&sql_signature=14e610b404e0a64097f63e42dd9c3dd4f5e69e50b685622fdf34f8f805bc0205&session_max_rows=25&is_browse_distinct=0) | [**total\_amount**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=orders&sql_query=SELECT+%2A+FROM+%60orders%60++%0AORDER+BY+%60orders%60.%60total_amount%60+ASC&sql_signature=1710f423aadef4bb4e452c29d155890a6939e413a3a31183f6676663c5e1d3d5&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- | --- | --- |
| 201 | 1 | 2025-07-01 | 300 |  |
| 202 | 2 | 2025-07-02 | 150 |  |

Products TABLE :

CREATE TABLE products(product\_id int, name VARCHAR(30), price int, category\_id int)

INSERT INTO products VALUES(301,"laptop",40000,1),(302,"T-shirt",200,2),(303,"smart phone",15000,1),(304,"shoe",500,2)

| [**product\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+%60products%60++%0AORDER+BY+%60products%60.%60product_id%60+ASC&sql_signature=19414a7d8e747deffcfb1438cd668fbbc6c6c8d26b0fd5bdee756cc045578502&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+%60products%60++%0AORDER+BY+%60products%60.%60name%60+ASC&sql_signature=abfe9e5cddf0744d2c3bfd45cc4ee7b6f815235e2bef796b08bbd720cf014371&session_max_rows=25&is_browse_distinct=0) | [**price**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+%60products%60++%0AORDER+BY+%60products%60.%60price%60+ASC&sql_signature=3766ff2605b339c4d4bcc2a0df72dd9960a0ca437150e785c1e661cf9f713db0&session_max_rows=25&is_browse_distinct=0) | [**category\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+%60products%60++%0AORDER+BY+%60products%60.%60category_id%60+ASC&sql_signature=5d67fcaae9c0905c526346e2315934c0c76af2d05c3afbe212df27ca96f486ff&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- | --- | --- |
| 301 | laptop | 40000 | 1 |  |
| 302 | T-shirt | 200 | 2 |  |
| 303 | smart phone | 15000 | 1 |  |
| 304 | shoe | 500 | 2 |  |

Categories TABLE :

CREATE TABLE categories(category\_id int, category\_name VARCHAR(30))

INSERT INTO categories VALUES(1,"electronics"),(2,"clothing")

| [**category\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=categories&sql_query=SELECT+%2A+FROM+%60categories%60++%0AORDER+BY+%60categories%60.%60category_id%60+ASC&sql_signature=1a51572d1376bd51fed320b2aea1d6b3383d037442ee6f9503dde44f9b4918d5&session_max_rows=25&is_browse_distinct=0) | [**category\_name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=categories&sql_query=SELECT+%2A+FROM+%60categories%60++%0AORDER+BY+%60categories%60.%60category_name%60+ASC&sql_signature=fceb62c1f1cd850e746a0ea8f6c9d6a54fe9585794efd9036ac6be1a734005d2&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- |
| 1 | electronics |  |
| 2 | clothing |  |
|  |

Order Items TABLE :

CREATE TABLE order\_items (order\_id int, product\_id int, quantity int)

INSERT INTO order\_items VALUES(201,301,1),(202,302,2)

| [**order\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=order_items&sql_query=SELECT+%2A+FROM+%60order_items%60++%0AORDER+BY+%60order_items%60.%60order_id%60+ASC&sql_signature=e3cfc4f6c1f172f806d709e256975cec692c17d4aac276d9fd07ddef631a02f5&session_max_rows=25&is_browse_distinct=0) | [**product\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=order_items&sql_query=SELECT+%2A+FROM+%60order_items%60++%0AORDER+BY+%60order_items%60.%60product_id%60+ASC&sql_signature=d60c9121a86edb713ffc47fa4388c0cf0dbf5de9918fa42fb9ed419edc149681&session_max_rows=25&is_browse_distinct=0) | [**quantity**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=order_items&sql_query=SELECT+%2A+FROM+%60order_items%60++%0AORDER+BY+%60order_items%60.%60quantity%60+ASC&sql_signature=dba0186a3b2aad5d087126cdc6203d54632a3e9fd213d5f0cefd0b923bf29402&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- | --- |
| 201 | 301 | 1 |  |
| 202 | 302 | 2 |  |

Task :

Q1. SELECT \* FROM employees WHERE salary > (SELECT AVG (salary)FROM employees)

| **[Full texts](http://localhost/phpmyadmin/index.php)** | | | | [**employee\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+salary+%3E+%28SELECT+AVG+%28salary%29FROM+employees%29++%0AORDER+BY+%60employees%60.%60employee_id%60+ASC&sql_signature=4e0f6d0fa92014978be92edfcc4b49208e155b287e6e5b8df012e1a608aca03e&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+salary+%3E+%28SELECT+AVG+%28salary%29FROM+employees%29++%0AORDER+BY+%60employees%60.%60name%60+ASC&sql_signature=03fd10e8c6841c72e55a706e4e7be2fa474ec91e6cd7e5fa60e6106390c3f51c&session_max_rows=25&is_browse_distinct=0) | [**department\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+salary+%3E+%28SELECT+AVG+%28salary%29FROM+employees%29++%0AORDER+BY+%60employees%60.%60department_id%60+ASC&sql_signature=0eaa2acac721d580cd328c5224df7b3c97d1952ccf8c7409eb5bd6f118bcf727&session_max_rows=25&is_browse_distinct=0) | [**salary**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+salary+%3E+%28SELECT+AVG+%28salary%29FROM+employees%29++%0AORDER+BY+%60employees%60.%60salary%60+ASC&sql_signature=d395b2b3f33c789d8d85a7729c2d6eb4f6740676782239917a75c137c3b09011&session_max_rows=25&is_browse_distinct=0) |  | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 102 | ben | 1 | 75000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 104 | kelvin | 3 | 80000 |  |  |  |  |

Q2. SELECT \* FROM products WHERE price >( SELECT AVG(price)FROM products)

| [**product\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+price+%3E%28+SELECT+AVG%28price%29FROM+products%29++%0AORDER+BY+%60products%60.%60product_id%60+ASC&sql_signature=336e5a75061cbc0908e39a24e84f8c04eb734641ae1c9efd6cbb3f80400fc5aa&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+price+%3E%28+SELECT+AVG%28price%29FROM+products%29++%0AORDER+BY+%60products%60.%60name%60+ASC&sql_signature=a5a96d3a4207d5cc543da9b2b8716b158c9e6492f7f5a38f92919dcd0675ecd4&session_max_rows=25&is_browse_distinct=0) | [**price**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+price+%3E%28+SELECT+AVG%28price%29FROM+products%29++%0AORDER+BY+%60products%60.%60price%60+ASC&sql_signature=2f591c155394e0ab9ccb9c7f4d4a7674b4f989e3316b3ed9908eba9bd3574b68&session_max_rows=25&is_browse_distinct=0) | [**category\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+price+%3E%28+SELECT+AVG%28price%29FROM+products%29++%0AORDER+BY+%60products%60.%60category_id%60+ASC&sql_signature=6b0d5c9fcc81239920bf4c29f6cf225f14e45850f036bf2fa723cd608081a645&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- | --- | --- |
| 301 | laptop | 40000 | 1 |  |
| 303 | smart phone | 15000 | 1 |  |

Q3. SELECT customers.customer\_id FROM customers JOIN orders ON customers.customer\_id=orders.customer\_id

| [**customer\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=customers&sql_query=SELECT+customers.customer_id+FROM+customers+JOIN+orders+ON+customers.customer_id%3Dorders.customer_id++%0AORDER+BY+%60customers%60.%60customer_id%60+ASC&sql_signature=953904e698f6086f9dff64939b66f288fe2015a54908df60539891bb545e48a7&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- |
| 1 |  |
| 2 |  |

Q4. SELECT \* FROM employees WHERE department\_id=1

| **[Full texts](http://localhost/phpmyadmin/index.php)** | | | | [**employee\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+department_id%3D1++%0AORDER+BY+%60employees%60.%60employee_id%60+ASC&sql_signature=1a799be9406e7e49d4990f155043cbb7a02de2eaa400ac7bdb4567bfd29c52e9&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+department_id%3D1++%0AORDER+BY+%60employees%60.%60name%60+ASC&sql_signature=85c1df68cdaad8284b84c1971278738a12f804b1a977c4a0001806947722eb18&session_max_rows=25&is_browse_distinct=0) | [**department\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+department_id%3D1++%0AORDER+BY+%60employees%60.%60department_id%60+ASC&sql_signature=1af8122c0c2aba9668acd740728f288770fced37e6b44551ee7a6f0e875ee134&session_max_rows=25&is_browse_distinct=0) | [**salary**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=employees&sql_query=SELECT+%2A+FROM+employees+WHERE+department_id%3D1++%0AORDER+BY+%60employees%60.%60salary%60+ASC&sql_signature=fa071bcdbd07dc8286cab38d1c193a71b7cc834a059826c6a8eb6cf1a6d92301&session_max_rows=25&is_browse_distinct=0) |  | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 101 | bob | 1 | 70000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 102 | ben | 1 | 75000 |  |  |  |  |

Q5. SELECT \* FROM products WHERE products.product\_id NOT IN

(SELECT product\_id FROM order\_items)

| [**product\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+products.product_id+NOT+IN+%0D%0A%28SELECT+product_id+FROM+order_items%29++%0AORDER+BY+%60products%60.%60product_id%60+ASC&sql_signature=08fdbac350b0545ca48e28a77f06f2cda9b662d58e7a00a3a274d48f88a67195&session_max_rows=25&is_browse_distinct=0) | [**name**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+products.product_id+NOT+IN+%0D%0A%28SELECT+product_id+FROM+order_items%29++%0AORDER+BY+%60products%60.%60name%60+ASC&sql_signature=7a7924649f66244d9e075e502fef136cfc95913421ab650a29459fd2a2b57551&session_max_rows=25&is_browse_distinct=0) | [**price**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+products.product_id+NOT+IN+%0D%0A%28SELECT+product_id+FROM+order_items%29++%0AORDER+BY+%60products%60.%60price%60+ASC&sql_signature=90b290d18870fb118b8c62c638f28f80f6b0c02763869868817801b136cf739f&session_max_rows=25&is_browse_distinct=0) | [**category\_id**](http://localhost/phpmyadmin/index.php?route=/sql&db=mydb&table=products&sql_query=SELECT+%2A+FROM+products+WHERE+products.product_id+NOT+IN+%0D%0A%28SELECT+product_id+FROM+order_items%29++%0AORDER+BY+%60products%60.%60category_id%60+ASC&sql_signature=22f99411a0303d63fa27d7ca4d38af50ac271a67aa0a1c65bd206309a25c86af&session_max_rows=25&is_browse_distinct=0) |  |
| --- | --- | --- | --- | --- |
| 303 | smart phone | 15000 | 1 |  |
| 304 | shoe | 500 | 2 |  |