

SQL INTERACTION IN CLIENT AND ADMIN/BANK TELLER

Data Selection in Client

```
SELECT *, TIME_FORMAT(time, '%h:%i %p') AS timef FROM
    $table WHERE $transaction_id_col='$transaction_id';
SELECT * FROM $table WHERE
    $account_number_col='$account_number';
SELECT $balance_col FROM $table WHERE
    $account_col='$account_number';
SELECT $surname_col, $first_name_col, $middle_name_col,
    $suffix_col FROM $table WHERE
    $account_col='$account_number';
SELECT $phone_col FROM $table WHERE
    $email_col='$email';
SELECT $phone_col FROM $table WHERE
    $account_col='$account_number';
SELECT $account_col FROM $table WHERE
    $email_col='$email';
SELECT $account_col FROM $table WHERE
    $phone_number_col='$phone_number';
SELECT $password_col FROM $table WHERE
    $account_col='$account_number';
SELECT $bank_name_col FROM $bank_table WHERE
    $bank_code_col='$bank_code';
SELECT $bank_url_col FROM $bank_table WHERE
    $bank_code_col='$bank_code';
SELECT $account_col FROM $account_table WHERE
    $account_col='$account_number';
SELECT $employee_col FROM $employee_table WHERE
    $employee_col=$employee_number;
SELECT $bank_code_col FROM $bank_table WHERE
    $bank_code_col='$bank_code';
SELECT $transaction_id_col FROM $transaction_table WHERE
    $transaction_id_col='$transaction_id';
SELECT $transaction_id_col FROM $transaction_table WHERE
    $transaction_id_col='$transaction_id';
SELECT $phone_col FROM $account_table WHERE
    $phone_col='$phone' AND $password_col='$password';
SELECT $number_col FROM $employee_table WHERE
    $number_col=$employee_number AND $password_col='$password';
SELECT $email_col FROM $account_table WHERE
    $email_col='$email';
SELECT $phone_number_col FROM $account_table WHERE
    $phone_number_col='$phone_number';
```

Data Selection in Admin/Bank Teller

```
SELECT *, TIME_FORMAT(time, '%H:%i:%s %p') AS timef FROM
    $table WHERE $transaction_id_col='$transaction_id';

SELECT * FROM $table WHERE
    $admin_id_col='$admin_id';

SELECT $balance_col FROM $table WHERE
    $account_col='$account_number';

SELECT $surname_col, $first_name_col, $middle_name_col,
    $suffix_col FROM $table WHERE
    $admin_col='$admin_id';

SELECT $surname_col, $first_name_col, $middle_name_col,
    $suffix_col FROM $table WHERE
    $account_col='$account_number';

SELECT $phone_col FROM $table WHERE
    $email_col='$email';

SELECT $phone_col FROM $table WHERE
    $admin_col='$admin_id';

SELECT $admin_col FROM $table WHERE
    $email_col='$email';

SELECT $admin_col FROM $table WHERE
    $phone_number_col='$phone_number';

SELECT $password_col FROM $table WHERE
    $admin_col='$admin_id';

SELECT $bank_name_col FROM $bank_table WHERE
    $bank_code_col='$bank_code';

SELECT $bank_url_col FROM $bank_table WHERE
    $bank_code_col='$bank_code';

SELECT $admin_col FROM $admin_table WHERE
    $admin_col='$admin_id';

SELECT $account_col FROM $account_table WHERE
```

```

        $account_col='$account_number';
SELECT $employee_col FROM $employee_table WHERE
        $employee_col=$employee_number;
SELECT $bank_code_col FROM $bank_table WHERE
        $bank_code_col='$bank_code';
SELECT $transaction_id_col FROM $transaction_table WHERE
        $transaction_id_col='$transaction_id';
SELECT $transaction_id_col FROM $transaction_table WHERE
        $transaction_id_col='$transaction_id';
SELECT $email_col FROM $admin_table WHERE
        $email_col='$email' AND $password_col='$password';
SELECT $email_col FROM $admin_table WHERE
        $email_col='$email';
SELECT $phone_number_col FROM $admin_table WHERE
        $phone_number_col='$phone_number';
SELECT COUNT($user_column) FROM $account_table;
SELECT COUNT($admin_column) FROM $admin_table;
SELECT COUNT(*) FROM $deposit_table;
SELECT COUNT(*) FROM $withdraw_table;
SELECT COUNT(*) FROM $withdraw_table;
SELECT '$deposit_table' AS transaction_type, $amount_col,
        $date_col, $time_col, $account_col
        FROM $deposit_table
        ORDER BY $date_col DESC, $time_col DESC
        LIMIT 3
)
UNION
(
SELECT '$withdraw_table' AS transaction_type,
        $amount_col, $date_col, $time_col, $account_col
        FROM $withdraw_table
        ORDER BY $date_col DESC, $time_col DESC

```

```

LIMIT 3

)

ORDER BY $date_col DESC, $time_col DESC

LIMIT 3";

```

Data Modification in Client

```

UPDATE $account_table SET $balance_col=$new_balance WHERE
    $account_col='$account_number';
UPDATE $account_table SET $password_col='$password' WHERE
    $phone_number_col='$phone_number';
INSERT INTO $transfer_table ($amount_col, $source_col,
    $recipient_col, $transaction_id_col, $date_col, $time_col,
    $bank_code_col)
    VALUES ($amount, '$source', '$recipient',
        '$transaction_id', '$date', '$time', '$bank_code');
INSERT INTO $transfer_table ($amount_col, $source_col,
    $recipient_col, $transaction_id_col, $date_col, $time_col)
    VALUES ($amount, '$source', '$recipient', '$transaction_id',
        '$date', '$time');
INSERT INTO $transfer_table ($amount_col, $source_col,
    $recipient_col, $transaction_id_col, $date_col, $time_col,
    $bank_code_col) VALUES ($amount, '$source', '$recipient',
        '$transaction_id', '$date', '$time', '$bank_code');
INSERT INTO $account_table(
    $account_number_col,
    $password_col,
    $balance_col,
    $surname_col,
    $first_name_col,
    $middle_name_col,
    $suffix_col,
    $phone_number_col,
    $address_col,
    $email_col,
    $birth_col
) VALUES (
    '$account_number',
    '$password',
    $balance,
    '$surname',

```

```

        '$first_name',
        '$middle_name',
        '$suffix',
        '$phone_number',
        '$address',
        '$email',
        '$birth'
    );

```

Data Modification in Admin/Bank Teller

```

UPDATE $account_table SET $balance_col=$new_balance WHERE
        $account_col='$account_number';

UPDATE $admin_table SET $password_col='$password' WHERE
        $phone_number_col='$phone_number';

INSERT INTO $deposit_table ($transaction_id_col, $admin_col,
        $amount_col, $account_col, $date_col, $time_col)
VALUES ('$transaction_id', '$admin_id', $amount, '$account_number',
        '$date', '$time');

INSERT INTO $admin_table(
        $admin_id_col,
        $password_col,
        $surname_col,
        $first_name_col,
        $middle_name_col,
        $suffix_col,
        $phone_number_col,
        $email_col,
        $birth_col
) VALUES (
        '$admin_id',
        '$password',
        '$surname',
        '$first_name',
        '$middle_name',

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        '$suffix',  
        '$phone_number',  
        '$email',  
        '$birth'  
    );  
  
INSERT INTO $withdraw_table ($transaction_id_col, $admin_col,  
    $amount_col, $account_col, $date_col, $time_col)  
VALUES ('$transaction_id', '$admin_id', $amount, '$account_number',  
    '$date', '$time');
```