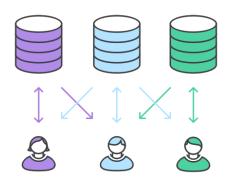
## Data Warehousing Using IBM Cloud Db2

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Here I am creating one Banking Sector Data Warehouse where multiple datatables or entities are there.

Here we creating the Database using Mysql Database : Banking\_sector(Sql file is attached on Github)



Describing Entities belongs to database:

- Employee
- Customer
- Accounts
- Branch
- Loan

This all are the entities belongs to database

# Employee:

Id	Name	Email	Contact	Address	Position

## **Customer:**

Id	customer_id	Customer_ty pe	account_no	branch_id	email

## Accounts:

Id	account_id	account_typ e	account_n o	current_b alance	date_ope ned

### Branch:

Id	Branch_id branch_code		branch_name	address

#### Loan:

Id	loan_id	start_date	end_date	loan_ty pe	loan_a mmoun t	user_id

Now for performing some Operation i am using the sql Queries:

For data Insertion:

Data insertion in Account:

```
<!-- insert data for Accounts -->
<!php
include 'conn.php';

$account_id='';
```

```
$account_type='';
$account_number='';
$current_balance='';
$date='';

$sq1 = "INSERT INTO `account`(`account_id`, `account_type`,
`account_number`, `current_balance`, `date_opened`)
VALUES('$account_id','$account_type','$account_number','$current_balance',
'$date')";
$result = mysqli_query($conn, $sql) or die("Query Unsuccessful.");

if($result){
    echo "successfull";
}else{
    echo "unsuccessfull";
}
mysqli_close($conn);
?>
<!-- insert data for Accounts -->
```

#### Data insertion For Employee:

```
<!-- insert data for Employee -->
<?php
include 'conn.php';

$name ='';
$email ='';
$position ='';
$contact ='';
$address ='';</pre>
```

#### Data Insertion for Branch:

```
<!php
include 'conn.php';
$branch_id = '';
$branch_name = '';
$branch_code='';
$address = '';

$sql = "INSERT INTO `branch`(`branch_id`, `branch_name`, `branch_code`, `address`)

VALUES('$branch_id', '$branch_name', '$branch_code', '$address')";
$result = mysqli_query($conn, $sql) or die("Query Unsuccessful.");

if($result) {
    echo "successfull";
}else{
    echo "unsuccessfull";
}

mysqli_close($conn);
</pre>
```

?>

#### Data Insertion For loan:

```
include 'conn.php';
$loan id ='';
$st date ='';
$end date ='';
$loan type ='';
$loan amount ='';
$user id ='';
$sql = "INSERT INTO `loan`(`loan id`, `start date`, `end date`,
`loan_type`, `loan_amount`, `user_id`) VALUES
('$loan id','$st date','$end date','$loan type','$loan amount','$user id')
$result = mysqli_query($conn, $sql) or die("Query Unsuccessful.");
if($result){
   echo "successfull";
}else{
   echo "unsuccessfull";
mysqli close($conn);
```

Now We have data stored into database so now we can work on retrieving the data from database

Now here Here Two Approaches are there 👍

- Fetch All the dataFetch Particular data

#### For Fetch all the data 👍

Sql = SELECT \* FROM `data\_table\_name`

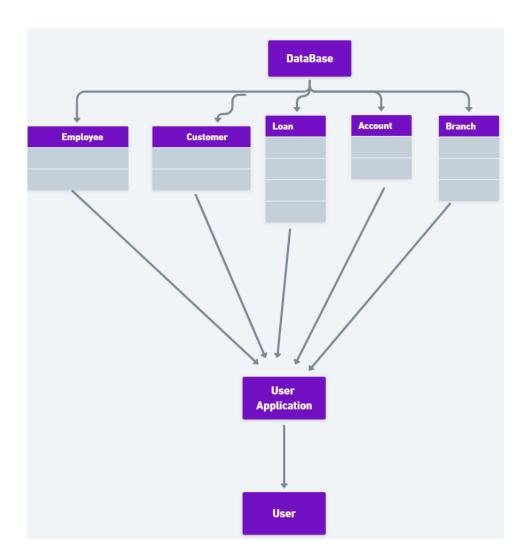
For Fetch particular data We can use the where clause

Sql =SELECT \* FROM `table` WHERE attribute = attribute

Now the final work Show in the user application

```
nk
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.
css" rel="stylesheet"
integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2
MPK8M2HN" crossorigin="anonymous">
   <title>Account Details</title>
</head>
<body>
   <div class='container'>
      <h2 style="text-align:center">Account Details</h2>
      include 'conn.php';
      $sql = "SELECT * FROM table name";
      $result = mysqli query($conn, $sql) or die("Query Unsuccessful.");
      if (mysqli num rows($result) > 0) {
         <thead>
               #
                   First
                   Last
                   Handle
               </thead>
            while ($row = mysqli fetch assoc($result)) {
                   1
                      <?php echo $row['e1']; ?>
```

The in this way the data flow will be maintain in the database



Here the IBM Cloud db2 will help us for optimization for data flow and storing the data