**SQL ASSIGNMENT NO # 01**

Saint Clara Insurance (SCI) services is a leading Insurance company based in New York, USA. SCI Services wanted a faster, more accurate, and less expensive way to handle insurance claims adjusting for its insurance company customers. With an ever-increasing customer base, they decided to create a Web-based application that will be used not only by employees who work on field, but will also be used by the administrators in the head office.

SCI handles approximately 650 claims per month, but that can soar to 15000 or more when a hurricane or some other disaster strikes. Officers can use the software on the device type of their choice: Tablet PCs or laptops in the field, or desktop PCs back in their offices. The use of Microsoft SQL Server 2005 as the software's database enables to receive and update all the necessary information regarding a customer or claimer.

With thousands of customers expected every month, data integrity of the data in the database is very important. You need to perform the following tasks:

**DDL QUERIES TBALE 1**

1. Create a database called **SaintClaraServices** to store the details of the company. Create a table **CustomerHeader** with the details given in table

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **ClientID** | **int** | **Stores client id. This column is the Primary Key** |
| **FirstName** | **char** | **Stores first name of the client** |
| **MiddleName** | **char** | **Stores first name of the client** |
| **LastName** | **char** | **Stores last name of the client** |
| **Gender** | **char** | **Stores gender of the client** |
| **DateOfBirth** | **datetime** | **Stores date of birth of the client** |
| **City** | **Varchar(225)** | **Stores city of the client** |
| **MaritalStatus** | **char** | **Stores marital status of the client** |
| **Age** | **int** | **Stores age of the client** |
| **Employement** | **char** | **Stores occupation of the client** |
| **CompanyName** | **varchar(225)** | **Stores the company name** |
| **CompanyAddress** | **varchar(225)** | **Stores the company address** |

1. Write a Query to Alter the column **Employement (char)** TO **Employement(Varchar)**
2. Write a query to add a new **Qualification(char)** column in to **CustomerHeader table**
3. Write a query to drop a **MiddleName** column from an existing **CustomerHeader table**.

**DDL QUERIES TBALE 2**

1. Create another table **CustomerDetails** inside the existing with the specifications given in table

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **CustomerID** | **int** | **ClientID int Stores client id. This column is the Primary Key** |
| **ClientID** | **int** | **ClientID int Stores client id. This column is the Foreign Key** |
| **FatherName** | **char** | **Stores the name of the client's father** |
| **MotherName** | **char** | **Stores the name of the client's mother** |
| **Amount** | **money** | **Stores the principal amount** |
| **Period** | **int** | **Stores period for insurance** |
| **Premium** | **money** | **Stores premium** |
| **NomineeName** | **char** | **Stores nominee name** |
| **Date** | **date** | **Stores the date on which insurance is made** |
| **Time** | **time** | **Stores the date on which insurance is made** |

1. Write a Query to Alter the column **Period (int)** TO **Period(bigint)**
2. Write a query to add a new **Plan(Varchar)** column in to **CustomerDetails table**
3. Write a query to drop a **Time** column from an existing **CustomerDetails table**.

**DML QUERIES Table 1**

1. Write a query to insert the given records in to **CustomerHeader Table**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ClientID** | **First Name** | **Last Name** | **Gender** | **Date**  **Of Birth** | **City** | **Marital**  **Status** | **Age** | **Employement** | **Company Name** | **Company**  **Address** |
| 1 | Bisma | Naeem | Female | 02-Jan-1998 | Karachi | Single | 24 | Null | Null | NULL |
| 2 | Rehman | Malik | Male | 03-mar-1990 | Lahore | Married | 32 | Private Job | DynCorp | 2 Link Road, Welwyn |
| 3 | Saniya | Malik | Female | 15-apr-1996 | Islamabad | Single | 26 | Private job | Danone | Lane #2, Off Clifton |
| 4 | Ajmal | Hussain | Male | 10-aug-1994 | Karachi | Single | 28 | Govt Job | Comcast | College Road Township |
| 5 | Adil | Rehman | Male | 12-sep-1995 | Lahore | Married | 27 | Sales Job | Coca-Cola Company | Deenpura P.O.Box: 2366 |
| 6 | Zohaib | Nasir | Male | 16-oct-1992 | Islamabad | Married | 30 | Govt Job | Metro Cash&Carry | Azhar Office # 14 F.D.A Market |
| 7 | Sonia | Fahad | Female | 25-dec-2000 | Rawalpindi | Single | 22 | Private job | UPC | 40-Talpur Road, |
| 8 | Hussain | Shah | Male | 26-Jan-2002 | Karachi | Single | 20 | Private job | Global Print | #2, 1st Floor, Gapan Centre |
| 9 | Naveed | Hussain | Male | 10-jun-1996 | Lahore | Married | 26 | Private job | Amazon.com | United State |
| 10 | Fahad | Hameed | Male | 14-jul-1995 | Islamabad | Married | 27 | Private job | Leadertech Consulting | F-451 opposite Estates |
| 11 | Haseeb | Asif | Male | 2-nov-2001 | Karachi | Single | 19 | Govt Job | Boeing | Crow Hill |
| 12 | Sana | Ahmed | Female | 7-may-2000 | Lahore | Single | 22 | Govt Job | Global Print | 56 Stroud Rd |
| 13 | Sadia | Faheem | Female | 8-nov-1994 | Islamabad | Married | 28 | Null | Null | NULL |
| 14 | Areeba | Naaz | Female | 2-feb-1992 | Lahore | Married | 30 | Private job | AECOM | 7-Ravi Road, |
| 15 | Sheeza | Fahad | Female | 10-oct-2000 | Islamabad | Single | 22 | Null | Null | NULL |

1. Write a query to display all records from **CustomerHeader Table**
2. Write a query to update the employment column value **private job to Sales Job** where **company name** is **amazon.com** from **CustomerHeader Table**

**DML QUERIES Table 2**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **ClientID** | FatherName | MotherName | Amount | Period | Plan | Premium | NomineeName | Date |
| 1 | 2 | Naeem | Seema | 300000 | 3 years | Health Insurance | 30000 | Wife | 15-Jan-2009 |
| 2 | 5 | Malik | Ashna | 100000 | 4 Years | Car insurance. | 10000 | Wife | 16-feb-2010 |
| 3 | 7 | Malik | Romana | 400000 | 5 Years | Life insurance. | 40000 | Sister | 21-mar-2011 |
| 4 | 8 | Hussain | Fariha | 200000 | 2 Years | Car Insurance | 20000 | Brother | 20-jun-2012 |
| 5 | 4 | Rehman | Sadia | 300000 | 30 months | Home Insurance | 30000 | Sister | 5-aug-2013 |
| 6 | 3 | Nasir | Zahida | 100000 | 3 years | Health Insurance | 10000 | Brother | 30-dec-2014 |
| 7 | 1 | Fahad | Naheed | 400000 | 4 Years | Car insurance. | 40000 | Sister | 31-nov-2015 |
| 8 | 13 | Shah | Farha | 200000 | 5 Years | Life insurance. | 20000 | Wife | 8-july-2016 |
| 9 | 10 | Hussain | Shumaila | 250000 | 2 Years | Car Insurance | 25000 | Son | 9-jan-2017 |
| 10 | 12 | Hameed | Somia | 350000 | 30 months | Home Insurance | 35000 | Sister | 30-dec-2018 |
| 11 | 9 | Asif | Nadia | 450000 | 3 years | Health Insurance | 45000 | Brother | 25-july-2019 |
| 12 | 14 | Ahmed | Fizza | 400000 | 4 Years | Car insurance. | 40000 | Daughter | 14-may-2020 |
| 13 | 11 | Faheem | Somaiya | 200000 | 5 Years | Life insurance. | 20000 | Sister | 16-oct-2021 |
| 14 | 15 | Naaz | Neha | 250000 | 2 Years | Car Insurance | 25000 | Sister | 28-nov-2021 |
| 15 | 6 | Fahad | Soha | 350000 | 30 months | Home Insurance | 35000 | Brother | 15-Jan-2022 |

1. Write a query to insert the given records in to **CustomerDetail Table**
2. Write a query to display all records from **CustomerDetail Table**
3. Write a query to update the Plan column value **Car Insurance to Home Insurance** where **company cusyomerID is 9** from **CustomerHeader Table**