**Assignment –2**

**Introducing Relational Databases.**

1. Which field of the Customers table is the primary key?

Solution –

MySQL primary key is a single or combination of the field, which is used to identify each record in a table uniquely. If the column contains primary key constraints, then it cannot be null or empty. A table may have duplicate columns, but it can contain only one primary key. It always contains unique value into a column.

When you insert a new row into the table, the primary key column can also use the AUTO\_INCREMENT attribute to generate a sequential number for that row automatically. [MySQL](https://www.javatpoint.com/mysql-tutorial) automatically creates an index named "Primary" after defining a primary key into the table. Since it has an associated index, we can say that the primary key makes the query performance fast.

Rules for Primary key

Following are the rules for the primary key:

1. The primary key column value must be unique.
2. Each table can contain only one primary key.
3. The primary key column cannot be null or empty.
4. MySQL does not allow us to insert a new row with the existing primary key.
5. It is recommended to use INT or BIGINT data type for the primary key column.

To identify the primary key, we would typically look for a column or combination of columns that uniquely identifies each row. In this case, without additional information, it's not immediately clear which column or columns serve as the primary key.

However, based on common conventions, it's possible that CNUM (Customer Number) could be the primary key if it uniquely identifies each customer. If CNUM is unique for each customer, then it would fulfill the requirements of a primary key.

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1. What is the 4th column of the Customers table?

Solution –

In the provided CUSTOMERS table, the fourth column corresponds to the RATING column, which contains the rating associated with each customer.

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1. What is another word for row? For column?

Solution –

In MySQL and database terminology in general:

Another word for "row" is "tuple" or "record."

Another word for "column" is "field" or "attribute."

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