**Umuzi Database Report**

This is a report for my assignment Project for Umuzi. The following had to be done Download MySQL and install on Ubuntu; also install the MySQLdb library in python (using conda or pip install).

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## Accessing MySQL

Access the MySQL server:

(base) johanna@johanna-HP-Compaq-6000-Pro-MT-PC:~$ sudo mysql -u root -p

[sudo] password for johanna:

Enter password:

## Available Databases

The following command was used to check the available databases and the available databases appeared as such:

mysql> SHOW DATABASES;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| Umuzi |

| mysql |

| performance\_schema |

| sys |

+--------------------+

Umuzi is the database I worked with as per instructions after creating it.

## Available tables

The databases contain the following tables, which should always have the same names:

SHOW TABLES;

+-----------------+

| Tables\_in\_Umuzi |

+-----------------+

| Customers |

| Employees |

| Orders |

| Payments |

| Products |

+-----------------+

We have 5 tables which we can query:

mysql> DESC Customers;

+------------+--------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+------------+--------------+------+-----+---------+----------------+

| CustomerID | int(11) | NO | PRI | NULL | auto\_increment |

| FirstName | varchar(20) | NO | | NULL | |

| LastName | varchar(20) | NO | | NULL | |

| Gender | varchar(6) | NO | | NULL | |

| Address | varchar(25) | NO | | NULL | |

| Phone | int(12) | NO | | NULL | |

| Email | varchar(100) | NO | | NULL | |

| City | varchar(50) | NO | | NULL | |

| Country | varchar(50) | NO | | NULL | |

+------------+--------------+------+-----+---------+----------------+

mysql> DESC Employees;

+------------+------------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+------------+------------------+------+-----+---------+----------------+

| EmployeeID | int(10) unsigned | NO | PRI | NULL | auto\_increment |

| FirstName | varchar(50) | NO | | NULL | |

| LastName | varchar(50) | NO | | NULL | |

| Email | varchar(50) | NO | | NULL | |

| JobTitle | varchar(100) | NO | | NULL | |

+------------+------------------+------+-----+---------+----------------+

mysql> DESC Orders;

+--------------+------------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+--------------+------------------+------+-----+---------+----------------+

| OrdersID | int(10) unsigned | NO | PRI | NULL | auto\_increment |

| OrderDate | datetime | YES | | NULL | |

| RequiredDate | datetime | YES | | NULL | |

| ShippedDate | datetime | YES | | NULL | |

| Status | varchar(100) | YES | | NULL | |

+--------------+------------------+------+-----+---------+----------------+

mysql> DESC Payments;

+-------------+---------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-------------+---------------+------+-----+---------+----------------+

| CustomerID | int(10) | NO | PRI | NULL | auto\_increment |

| PaymentDate | datetime | YES | | NULL | |

| Amount | decimal(10,0) | YES | | NULL | |

+-------------+---------------+------+-----+---------+----------------+

mysql> DESC Products;

+-------------+---------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-------------+---------------+------+-----+---------+----------------+

| ProductId | int(11) | NO | PRI | NULL | auto\_increment |

| ProductName | varchar(100) | NO | | NULL | |

| Description | varchar(500) | NO | | NULL | |

| BuyPrice | decimal(10,0) | YES | | NULL | |

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* A Primary Key for each table with auto-increment is created for each table
* A Foreign Key of a child table is used to reference the parent table, in this case the Payments table is the child table and the Customers table is the parent table, so the two have a link with each other.