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| uwicrest | The University of the West Indies  St. Augustine  Department of Computing and Information Technology  **COMP 2605 – Enterprise Database Systems**  ORACLE LAB # 1    11/09/2017 & 13/09/2017 |

1. Write an SQL create table statement to create a new table called **Department** with the following specifications

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Constraint** |
| DeptNum | Number; Size: 3 | NOT NULL, PRIMARY KEY |
| Dname | Varchar2; size: 12 | NOT NULL |
| Loc | Varchar2;size:12 | NOT NULL |

1. Write SQL insert statements to insert the following data into the Department table

|  |  |  |
| --- | --- | --- |
| **DEPTNUM** | **DNAME** | **LOC** |
| 10 | Accounting | New York |
| 20 | Research | Dallas |
| 30 | Sales | Chicago |
| 40 | Operations | Boston |

1. Write an SQL create table statement to create a new table called **Employees** with the following specifications

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Constraint** |
| EmpNum | Number, Size : 5 | NOT NULL, PRIMARY KEY |
| Ename | Varchar2, Size:15 | NOT NULL |
| Job | Varchar2, Size:15 | NOT NULL |
| Mgr | Number, Size : 5 |  |
| Hiredate | date | NOT NULL |
| Sal | Number, Size: 7,2 | NOT NULL |
| Comm | Number, Size:7,2 |  |
| DeptNum | Number, Size:3 | FOREIGN KEY referencing Department table |

1. Write an SQL insert statements to insert the following data into the Employees table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EmpNum** | **Ename** | **Job** | **Mgr** | **Hiredate** | **Sal** | **Comm** | **DeptNum** |
| 7369 | SMITH | CLERK | 7902 | 17th December 1980 | 800 | NULL | 20 |
| 7566 | JONES | MANAGER | 7839 | 2nd April 1987 | 1975 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 20th February 1981 | 1600 | 300 | 30 |
| 7839 | KING | PRESIDENT | NULL | 17th November, 1981 | 5000 | NULL | 10 |

1. Run the script **InstEmp.sql** to populate the remaining tuples in the Employees table.
2. Create a new table, **Vendor** with the following specifications

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Constraint** |
| VendorId | Varchar2; size: 5 | NOT NULL, PRIMARY KEY |
| VendorName | Varchar2;size:30 | NOT NULL |

1. Run the script **InstVendor.sql** to populate the Vendor table
2. Insert a row of data into the Vendor table with Vendor Id ‘DL’ and name ‘Dangers Ltd’.
3. Insert the following row of data into the Vendor table as it appears in the list

(‘Complete Computer Supplies’,’CCS’)

1. Change the name of vendor ‘DL’ to ‘MGB Enterprises’.
2. Create the **Product** table using the following specifications

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Constraint** |
| ProductId | Varchar2, Size:5 | NOT NULL, PRIMARY KEY |
| ProductName | Varchar2, Size:30 | NOT NULL |
| VendorId | Varchar2,Size:5 | NOT NULL, FOREIGN KEY |
| UnitPrice | Number.Size:8,2 | NOT NULL; Must be greater than or equal to zero |
| UnitsInStock | Number,Size:3 | NOT NULL; Must be greater than or equal to zero |
| ReorderQuantity | Number,Size:3 |  |
| ReorderFlag | Char,Size:1 | Default: N |

1. Add a new column to the Product table,

Name: ReorderLevel

Data type: Number, Size:3

Default: 10

1. Create a sequence called **testSequence**, which starts with 1 and increments by 1.
2. Create a new table, **SequenceTest** using the following specifications

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Constraint** |
| NumId | Number, Size:5 | NOT NULL, PRIMARY KEY |

1. Use the ‘testSequence’ sequence to insert the numbers 1 to 10 in the SequenceTest table.