**Assignments**

**DDL and DML**

1. **Create Employee table with below schema**

**EmpId (PK,varchar)**

**Ename(varchar)**

**Salary (numeric)**

**Experience in yrs(numeric) nullable**

1. **Insert 10 records with different salary range and grade**
2. **Add new column Grade ( A, B,C,D) nullable**
3. **Update grades for existing Employee depending on his/her salary as below**

|  |  |
| --- | --- |
| **Salary** | **Grade** |
| **>=1 & <=20000** | **D** |
| **>20,000 & <=400000** | **C** |
| **>40,000 & <=50,000** | **B** |
| **>50,000 & <=100000** | **A** |

1. **Increment Salary of Employees based on Grade**

|  |  |
| --- | --- |
| **Grade** | **% Hike** |
| **A** | **12** |
| **B** | **10** |
| **C** | **5** |
| **D** | **0** |

1. **Delete records those Grades are D and salary <2000**
2. **Find Employee who has 2nd highest salary**
3. **Create table SalesDetails with below schema**

**SalesOrderId(PK, varchar)**

**UnitPrice**

**OrderQty**

**Area(South,North, West, East)**

1. **Insert some data to above table**
2. **Display Total sales w.r.t. the Area**

|  |  |
| --- | --- |
| **Area** | **Total Sales** |
|  |  |
|  |  |

1. **Find the Area with largest sales**

**Normalization**

1. Identify in which Form below table is with justification:

ISBN 🡪 Title

ISBN 🡪 Publisher

Publisher 🡪 Address

|  |  |  |  |
| --- | --- | --- | --- |
| **ISBN** | **Title** | **Publisher** | **Address** |

2. Identify in which Form below table is with justification:

Part\_ID 🡪 Description

Part\_ID 🡪 Price

Part\_ID, Comp\_ID 🡪 No

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Part\_Id | Description | Price | Comp\_Id | No |

1. Normalize below Table till 3 NF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student\_Id** | **Student\_Email** | **First name** | **Last name** | **Address** |
| AB123 | mohit@abc.com | Mohit | Kumar | Bilaspur,Chatisgarh,zip:458991 |
| BC345 | rachana@abc.com | Rachana | Patel | Kacch, Gujrat, zip:832212 |
| KY876 | gaurav@abc.com | Gaurav | Patil | Bilaspur,Chatisgarh,zip:458991 |
| FM235 | minal@abc.com | Minal | Pradhan | Trichy, Tamilnadu,zip:645018 |

1. Self study – Explore Boyce Codd Normal form