**PART B (Merging Operation):**

Show the **FINAL ENTITY SET** after performing **MERGE** operation on your five 3NF solutions. (List all final relation here with their **Attributes**, **Primary Key**, and **Foreign Keys**). Make sure your final relations are in **3NF.**

**(SHOWING WORK, FINAL ENTITY SET AFTER THIS)**

**USER VIEW 1 - 3NF:**

INVOICE\_EQUIP [**InvNo (FK), EquipNo (FK)**]

INVOICE\_SERVICE [**InvNo (FK), ServiceCode (FK),** WorkDuration]

INVOICE [**InvNo**, InvDate, WorkTeam, CustNo **(FK)**]

SERVICE [**ServiceCode,** ServiceDesc, HourlyCharge]

EQUIP [**EquipNo**, EquipmentDesc]

CUSTOMER [**CustNo**, CustName, Address]

**USER VIEW 2 - 3NF:**

TEAM\_POS\_SKILL **[Team# (FK), Position# (FK), Skill# (FK)**]

TEAM\_POS **[Team# (FK), Position# (FK)**, EmpID **(FK)**]

TEAM **[Team#**, TeamDesc]

SKILL **[Skill#**, SkillsDesc]

POS **[Position#**, PositionDesc]

EMPLOYEE **[EmpID**, EmpName, OHIP#, HomePhone#, StartDate]

**USER VIEW 3 - 3NF:**

PRODUCT\_SALES\_REPORT [**InvoiceID (FK), ProdID (FK)**, QTY]

PRODUCT [**ProdID,** ProdClass, Product, Charge]

INVOICE [**InvoiceID,** InvoiceDate, SalesRepNo **(FK)**, CustNo]

SALESREP [**SalesRepNo**, SalesRepName]

**USER VIEW 4 - 3NF:**

PRODUCT\_REPORT [**ID**, Class **(FK)**, Description, Cost ]

CLASS [**Class**, Classification, Markup]

**USER VIEW 5 - 3NF:**

INVENTORY [**Product\_ID,** Description, Inventory, Aisle#, Supplier]

**APPLY SAME ATTRIBUTE NAMES (FINAL ENTITY SET AFTER THIS)**

**USER VIEW 1 - 3NF:**

1 INVOICE\_EQUIP [**InvNo (FK), EquipNo (FK)**]

2 INVOICE\_SERVICE [**InvNo (FK), ServiceCode (FK)**, WorkDuration]

3 INVOICE [**InvNo**, InvDate, TeamNo, CustNo **(FK)**]

4 SERVICE [**ServiceCode**, ServiceDesc, HourlyCharge]

5 EQUIP [**EquipNo**, EquipmentDesc]

6 CUSTOMER [**CustNo**, CustName, Address]

**USER VIEW 2 - 3NF:**

7 TEAM\_POS\_SKILL **[TeamNo (FK), PositionNo (FK), SkillNo (FK)**]

8 TEAM\_POS **[TeamNo (FK), PositionNo (FK)**, EmpID **(FK)**]

9 TEAM **[TeamNo**, TeamDesc]

10 SKILL **[SkillNo**, SkillsDesc]

11 POS **[PositionNo**, PositionDesc]

12 EMPLOYEE **[EmpID**, EmpName, OHIPNo, HomePhoneNo, StartDate]

**USER VIEW 3 - 3NF:**

13 PRODUCT\_SALES\_REPORT [**InvNo (FK), ProdID (FK)**, QTY]

14 PRODUCT [**ProdID,** ProdClass, ProdDesc, Charge]

15 INVOICE [**InvNo,** InvDate, EmpID **(FK)**, CustNo]

16 SALESREP [**EmpID**, EmpName]

**USER VIEW 4 - 3NF:**

17 PRODUCT\_REPORT [**ProdID**, ProdClass **(FK)**, ProdDesc, Cost]

18 CLASS [**ProdClass**, Classification, Markup]

**USER VIEW 5 - 3NF:**

19 INVENTORY [**ProdID,** ProdDesc, Inventory, AisleNo, Supplier]

**FINAL ENTITY SET** after performing **MERGE** operation

1 INVOICE\_EQUIP [**InvNo (FK), EquipNo (FK)**]

2 INVOICE\_SERVICE [**InvNo (FK), ServiceCode (FK)**, WorkDuration]

3, 15 INVOICE [**InvNo**, InvDate, TeamNo **(FK)**, CustNo **(FK),** EmpID **(FK)**]

4 SERVICE [**ServiceCode**, ServiceDesc, HourlyCharge]

5 EQUIP [**EquipNo**, EquipmentDesc]

6 CUSTOMER [**CustNo**, CustName, Address]

7 TEAM\_POS\_SKILL **[TeamNo (FK), PositionNo (FK), SkillNo (FK)**]

8 TEAM\_POS **[TeamNo (FK), PositionNo (FK)**, EmpID **(FK)**]

9 TEAM **[TeamNo**, TeamDesc]

10 SKILL **[SkillNo**, SkillsDesc]

11 POS **[PositionNo**, PositionDesc]

12, 16 EMPLOYEE **[EmpID**, EmpName, OHIPNo, HomePhoneNo, StartDate]

13 PRODUCT\_SALES\_REPORT [**InvNo (FK), ProdID (FK)**, QTY]

14, 17, 19 PRODUCT [**ProdID,** ProdClass **(FK)**, ProdDesc, Cost, Inventory, AisleNo,

Supplier, Charge]

18 CLASS [**ProdClass**, Classification, Markup]

**CHECK FOR TRANSITIVE DEPENDENCIES IF ANY WERE CREATED B/C OF THE MERGE - NONE!**