ngee ann
polytechnic

DATABASES
October 2024 - February 2025

SCHOOL OF INFOCOMM TECHNOLOGY

Diploma in Information Technology
Diploma in Data Science

Databases Assignment – FINAL Report
(40% of DB Module)

06 Jan 2025 – 02 Feb 2025 (4 Weeks)

Deliverables	Deadline	Submission
Softcopy	Sunday 02 Feb 2025, 23:59 pm	BrightSpace Assignment Final Submission link
Hardcopy	Monday 03 Feb 2025, 17:00 pm	Blk 31 Level 8 (Admin Office), Pigeon-holes (Databases)

DB Class Group	T10	
Team Number	1	Team Grade:
Tutor	Chong Kwee Leng	
Members	Student No.	Student Name	Individual Grade

Members	Student No.	Student Name	Individual Grade
	S10268235D	Ho Wei Xian	
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Penalty for late submission:

10% of the marks will be deducted for everyday (inclusive of Saturdays, Sundays, and Public Holidays) after the deadline.

NO submission will be accepted after **07 Feb 2025, 23:59 pm**.

1. List of mapped Relations (Logical Design)

Member (<u>MemberID</u>, MemberName, MemberDOB, MemberEmail, MemberDateJoined, MemberMobile, City)

Seller (<u><SellerID></u>)

Buyer (<u><BuyerID></u>)

Listing (<u>ListingID</u>, ListDesc, ListDateTime, ListPrice, ListStatus, <SubCatID>, <SellerID>)

Category (<u>CatID</u>, CatDesc)

SubCategory (<u>SubCatID</u>, SubCatDesc, <CatID>)

Offer (<u>OfferID</u>, OfferDate, OfferPrice, OfferStatus, <ListingID>, <BuyerID>)

Review (<u>ReviewID</u>, ReviewDate, MemberType, ItemRank, DeliveryRank, CommunicationRank, Comment, <OfferID>)

Chat (<u>ChatID</u>, <ListingID>, <BuyerID>)

ChatMsg (<u><ChatID>, MsgSN</u>, MsgDateTime, Originator, Msg)

Bump (<u>BumpID</u>, BumpDesc, BumpPrice)

BumpOrder (<u>BumpOrderID</u>, PurchaseDate, <BumpID>, <ListingID>, <SellerD>)

Feedback (<u>FbkID</u>, FbkDesc, FbkDateTime, FbkStatus, SatisfactionRank, <FbkCatID>,
  <reported_byMemID>, <reported_onMemID>, <handled_byStaffID>)

FeedbkCat (<u>FbkCatID</u>, FbkCatDesc)

Staff (<u>StaffID</u>, StaffName, StaffDateJoined, StaffMobile, <TeamID>)

Team (<u>TeamID</u>, TeamName, <StaffID>)

Award (<u>AwardID</u>,<TeamID>, AwardName, AwardAmt)

TeamWinnerDateAwarded (<u><TeamID>, <AwardID></u>, DateAwarded)

MemFollows (<u><FollowerMemID>,<FolloweeMemID></u>, DateStarted)

ListingLike (<u><ListingID>, <BuyerID></u>, DateLiked)

Photo (<u><ListingID>, PhotoID</u>)

2. Data Dictionary

Member

Attribute	Description	Data Type	Constraint	Null Value
MemberID	Unique identifier for each member	INT	Primary Key	No
MemberName	Full name of member	VARCHAR(255)		No
MemberDOB	Date of birth of member	SMALLDATETIME		No
MemberEmail	Email address of member	VARCHAR(255)	Unique	No
DateJoined	Date when member joined MokeSell	SMALLDATETIME		No
MemberMobile	Mobile number of member	VARCHAR(255)	Unique	No
City	City where member is located	VARCHAR(255)		

Seller

Attribute	Description	Data Type	Constraint	Null Value
SellerID	References MemberID who is a seller	INT	Primary Key, Foreign Key -> Member(MemberID)	No

Buyer

Attribute	Description	Data Type	Constraint	Null Value
BuyerID	References MemberID who is a buyer.	INT	Primary Key, Foreign Key -> Member(MemberID)	No

Listing

Attribute	Description	Data Type	Constraint	Null Value
ListingID	Unique identifier for each listing	INT	Primary Key	No
ListDesc	Description of the item being listed	VARCHAR(MAX)		No
ListDateTime	Date and time when listing was created	SMALLDATETIME		No
ListPrice	Price set by seller for the item	MONEY		No
ListStatus	Status of listing (Available/Sold/Inactive)	CHAR(15)	CHECK (ListStatus IN ('Available','Sold','Inactive'))	No
SubCatID	References subcategory of listing	INT	Foreign Key -> SubCategory(SubCatID)	No
SellerID	References seller who created listing	INT	Foreign Key -> Seller(SellerID)	No

Category

Attribute	Description	Data Type	Constraint	Null Value
CatID	Unique identifier for each category	INT	Primary Key	No
CatDesc	Description of the category	VARCHAR(255)		No

Subcategory

Attribute	Description	Data Type	Constraint	Null Value
SubCatID	Unique identifier for each subcategory	INT	Primary Key	No
SubCatDesc	Description of the subcategory	VARCHAR(255)		No
CatID	References parent category	INT	Foreign Key -> Category(CatID)	No

Offer

Attribute	Description	Data Type	Constraint	Null Value
OfferID	Unique identifier for each offer	INT	Primary Key	No
OfferDate	Date when offer was made	DATE		No
OfferPrice	Price offered by buyer	MONEY		No
OfferStatus	Status of offer (Submitted/Pending/Accepted/Rejected/Completed)	CHAR(20)	CHECK (OfferStatus IN ('Submitted', 'Pending','Accepted' ,'Rejected', 'Completed'))	No
ListingID	References listing being offered on	INT	Foreign Key -> Listing(ListingID)	No
BuyerID	References buyer making the offer	INT	Foreign Key -> Buyer(BuyerID)	No

Review

Attribute	Description	Data Type	Constraint	Null Value
ReviewID	Unique identifier for each review	INT	Primary Key	No
ReviewDate	Date when review was submitted	INT		No
MemberType	Type of member submitting review (Seller/Buyer)	VARCHAR(6)	CHECK (MemberType IN ('Seller','Buyer'))	No
ItemRank	Rating for item condition (1-5)	CHAR(1)	CHECK (ItemRank BETWEEN 1 AND 5)	No
DeliveryRank	Rating for delivery experience (1-5)	CHAR(1)	CHECK (DeliveryRank BETWEEN 1 AND 5)	No
CommunicationRank	Rating for communication (1-5)	CHAR(1)	CHECK (CommunicationRank BETWEEN 1 AND 5)	No
Comment	Additional comments	VARCHAR(MAX)		Yes
OfferID	References completed offer being reviewed	INT	Foreign Key -> Offer(OfferID)	No

Chat

Attribute	Description	Data Type	Constraint	Null Value
ChatID	Unique identifer for each chat.	INT	Primary Key	No
ListingID	References listing being discussed.	INT	Foreign Key -> Listing(ListingID)	No
BuyerID	References buyer in the chat.	INT	Foreign Key -> Buyer(BuyerID)	No

ChatMsg

Attribute	Description	Data Type	Constraint	Null Value
ChatID	References parnet chat.	INT	Primary Key, Foreign Key -> Chat(ChatID)	No
MsgSN	Message sequence number	INT	Primary Key	No
MsgDateTime	Date and time message was sent.	DATETIME		No
Originator	Who sent the message (Seller/Buyer)	VARCHAR(10)	CHECK (Originator IN ('Seller' 'Buyer'))	No
Msg	Content of the message.	VARCHAR(MAX)		No

Bump

Attribute	Description	Data Type	Constraint	Null Value
BumpID	Unique identifier for each bump type.	INT	Primary Key	No
BumpDesc	Descrition of bump promotion.	VARCHAR(255)		No
BumpPrice	Price of bump promotion.	SMALLMONEY		No

BumpOrder

Attribute	Description	Data Type	Constraint	Null Value
BumpOrderID	Unique identifier for each bump order.	INT	Primary Key	No
PurchaseDate	Date when bump was purchased.	DATE		No
BumpID	References type of bump purchased.	INT	Foreign Key -> Bump(BumpID)	No
ListingID	References listing being bumped.	INT	Foreign Key -> Listing(ListingID)	No
SellerID	References seller who purchased bump.	INT	Foreign Key -> Seller(SellerID)	No

Feedback

Attribute	Description	Data Type	Constraint	Null Value
FbkID	Unique identifier for each feedback	INT	Primary Key	No
FbkDesc	Description of feedback	VARCHAR(MAX)		No
FbkDateTime	Date and time feedback was submitted	DATETIME		No
FbkStatus	Status of feedback (Pending/Receiving Attention/Completed)	VARCHAR(15)	CHECK (FbkStatus IN ('Pending', 'Received, Attention', 'Completed'))	No
SatisfactionRank	Rating for satisfaction (1-5)	INT	CHECK (SatisfactionRank BETWEEN 1 AND 5)	No
FbkCatID	References feedback category	INT	Foreign Key -> FeedbkCat(FbkCatID)	No
ByMemberID	References member who reported	INT	Foreign Key -> Member(MemberID)	No
OnMemberID	References member being reported	INT	Foreign Key -> Member(MemberID)	No
StaffID	References staff handling feedback.	INT	Foreign Key -> Staff(StaffID)	No

FeedbkCat

Attribute	Description	Data Type	Constraint	Null Value
FbkCatID	Unique identifier for each feedback category	INT	Primary Key	No
FbkCatDesc	Description of feedback category	VARCHAR(255)		No

Staff

Attribute	Description	Data Type	Constraint	Null Value
StaffID	Unique identifier for each staff	INT	Primary Key	No
StaffName	Full name of staff	VARCHAR(50)		No
StaffDateJoined	Date when staff joined MokeSell	DATE		No
StaffMobile	Mobile number of staff	VARCHAR(13)	Unique	Yes
TeamLeaderID	References team staff belongs to	INT	Foreign Key -> Team(TeamID) Unique	No

Team

Attribute	Description	Data Type	Constraint	Null Value
TeamID	Unique identifier for each team	INT	Primary Key	No
TeamName	Name of the team	VARCHAR(100)		Yes
StaffID	References team manager	INT	Foreign Key -> Staff(StaffID) Unique	No

Award

Attribute	Description	Data Type	Constraint	Null Value
AwardID	Unique identifier for each award	INT	Primary Key	No
AwardName	Name of the award	VARCHAR(50)		No
AwardAmt	Amount of award	SMALLMONEY		No

Win

Attribute	Description	Data Type	Constraint	Null Value
TeamID	References winning team	INT	Primary Key, Foreign Key -> Team(TeamID)	No
AwardID	References award won	INT	Primary Key, Foreign Key -> Award(AwardID)	No
DateAwarded	Date when award was given	DATE	Primary Key	No

Follower

Attribute	Description	Data Type	Constraint	Null Value
MemberID	References following member	INT	Primary Key, Foreign Key -> Member(MemberID)	No
FollowerID		INT	Primary Key, Foreign Key -> Member(MemberID)	No
DateStarted	Date when following began	DATE		No

Likes

Attribute	Description	Data Type	Constraint	Null Value
ListingID	References liked listing	INT	Primary Key, Foreign Key -> Listing(ListingID)	No
MemberID	References buyer who liked	INT	Primary Key, Foreign Key -> Buyer(BuyerID)	No
DateLiked	Date when listing was liked	DATE		No

ListingPhoto

Attribute	Description	Data Type	Constraint	Null Value
ListingID	References listing with photo	INT	Primary Key, Foreign Key -> Listing(ListingID)	No
Photo	Identifier for each photo	VARCHAR(10)	Primary Key	No

3. SQL statements for tables creation and insertion of tuples

i) Tables creation

```sql
/*
------------
1) Drops MokeSell if it exists
2) Creates a fresh MokeSell database
3) Switches to MokeSell
*/

USE master;
GO

IF EXISTS (SELECT 1 FROM sys.databases WHERE name = 'MokeSell')
BEGIN
    ALTER DATABASE MokeSell SET SINGLE_USER WITH ROLLBACK
IMMEDIATE;
    DROP DATABASE MokeSell;
END
GO

CREATE DATABASE MokeSell;
GO

USE MokeSell;
GO

PRINT 'Database MokeSell created and in use.';

/*
CreateTables.sql
----------------
Creates all tables in MokeSell with a mandatory 1–1 relationship
between Team and Staff by sharing the same key (TeamID = StaffID).
We assume MokeSell already exists (CreateDB.sql).
*/

USE MokeSell;
GO
```

```
-----------------------------------------------------------------------
-- AWARD
-----------------------------------------------------------------------
CREATE TABLE dbo.Award
(
    AwardID    INT       NOT NULL,
    AwardName VARCHAR(50) NOT NULL,
    AwardAmt  SMALLMONEY  NOT NULL,
    CONSTRAINT PK_Award PRIMARY KEY (AwardID)
);
GO


-----------------------------------------------------------------------
-- MEMBER
-----------------------------------------------------------------------
CREATE TABLE dbo.Member
(
    MemberID      INT          NOT NULL,
    MemberName    VARCHAR(255)  NOT NULL,
    MemberDOB     SMALLDATETIME NOT NULL,
    MemberEmail   VARCHAR(255)  UNIQUE NOT NULL,
    MemberMobile  VARCHAR(255)  UNIQUE NOT NULL,
    DateJoined    SMALLDATETIME  NOT NULL,
    City          VARCHAR(255)   NOT NULL,
    CONSTRAINT PK_Member PRIMARY KEY (MemberID)
);
GO


-----------------------------------------------------------------------
-- FOLLOWER
-----------------------------------------------------------------------
CREATE TABLE dbo.Follower
(
    MemberID    INT NOT NULL,
    FollowerID  INT NOT NULL,
    DateStarted DATE NOT NULL,
    CONSTRAINT PK_Follower PRIMARY KEY (MemberID, FollowerID),
    CONSTRAINT FK_Follower_Member
      FOREIGN KEY (MemberID)   REFERENCES dbo.Member(MemberID),
    CONSTRAINT FK_Follower_Follower
      FOREIGN KEY (FollowerID) REFERENCES dbo.Member(MemberID)
);
GO
```

```sql
----------------------------------------------------------------------
-- BUMP
----------------------------------------------------------------------
CREATE TABLE dbo.Bump
(
    BumpID    INT        NOT NULL,
    BumpDesc  VARCHAR(255) NULL,
    BumpPrice SMALLMONEY   NOT NULL,
    CONSTRAINT PK_Bump PRIMARY KEY (BumpID)
);
GO


----------------------------------------------------------------------
-- BUYER
----------------------------------------------------------------------
CREATE TABLE dbo.Buyer
(
    BuyerID  INT NOT NULL,

    CONSTRAINT PK_Buyer PRIMARY KEY (BuyerID),
    CONSTRAINT FK_Buyer_Member
        FOREIGN KEY (BuyerID) REFERENCES dbo.Member(MemberID)
);
GO


----------------------------------------------------------------------
-- SELLER
----------------------------------------------------------------------
CREATE TABLE dbo.Seller
(
    SellerID INT NOT NULL,
    CONSTRAINT PK_Seller PRIMARY KEY (SellerID),
    CONSTRAINT FK_Seller_Member
        FOREIGN KEY (SellerID) REFERENCES dbo.Member(MemberID)
);
GO


----------------------------------------------------------------------
-- TEAM (Ensure a 1:1 relationship with STAFF via TeamLeaderID)
----------------------------------------------------------------------
CREATE TABLE dbo.Team
(
    TeamID    INT        NOT NULL PRIMARY KEY,
    TeamName    VARCHAR(100) NULL,
    TeamLeaderID INT       UNIQUE NOT NULL  -- Each team has ONE leader
);
GO
```

```sql
-------------------------------------------------------------------------
-- STAFF (Ensure each Staff is a member of ONE Team)
-------------------------------------------------------------------------
CREATE TABLE dbo.Staff
(
    StaffID         INT         NOT NULL PRIMARY KEY,
    StaffName       VARCHAR(50) NOT NULL,
    StaffMobile     CHAR(13)    NULL UNIQUE,
    StaffDateJoined DATE        NOT NULL,
    TeamID          INT         NULL, -- NULL for non-leaders
    CONSTRAINT FK_Staff_Team FOREIGN KEY (TeamID) REFERENCES
dbo.Team(TeamID)
);
GO

-- ALTER Team to add foreign key reference to Staff for leader
ALTER TABLE dbo.Team
ADD CONSTRAINT FK_Team_TeamLeader
FOREIGN KEY (TeamLeaderID) REFERENCES dbo.Staff(StaffID);
GO


-------------------------------------------------------------------------
-- WIN
-------------------------------------------------------------------------
CREATE TABLE dbo.Win
(
    AwardID     INT NOT NULL,
    TeamID      INT NOT NULL,
    DateAwarded DATE NOT NULL,
    CONSTRAINT PK_Win PRIMARY KEY (AwardID, TeamID, DateAwarded),
    CONSTRAINT FK_Win_Award FOREIGN KEY (AwardID) REFERENCES
dbo.Award(AwardID),
    CONSTRAINT FK_Win_Team  FOREIGN KEY (TeamID)  REFERENCES
dbo.Team(TeamID)
);
GO


-------------------------------------------------------------------------
-- CATEGORY
-------------------------------------------------------------------------
CREATE TABLE dbo.Category
(
    CatID   INT         NOT NULL,
    CatDesc VARCHAR(255) NOT NULL,
    CONSTRAINT PK_Category PRIMARY KEY (CatID)
);
GO
```

```
-----------------------------------------------------------------------
-- SUBCATEGORY
-----------------------------------------------------------------------
CREATE TABLE dbo.SubCategory
(
    SubCatID   INT         NOT NULL,
    SubCatDesc VARCHAR(255) NULL,
    CatID      INT         NOT NULL,
    CONSTRAINT PK_SubCategory PRIMARY KEY (SubCatID),
    CONSTRAINT FK_SubCategory_Category
        FOREIGN KEY (CatID) REFERENCES dbo.Category(CatID)
);
GO




-----------------------------------------------------------------------
-- LISTING
-----------------------------------------------------------------------
CREATE TABLE dbo.Listing
(
    ListingID   INT         NOT NULL,
    ListDesc    VARCHAR(MAX)  NOT NULL,
    ListDateTime SMALLDATETIME  NOT NULL,
    ListPrice   MONEY        NOT NULL,
    ListStatus  CHAR(15)      NOT NULL CHECK (ListStatus IN
('Available','Sold','Inactive')),
    SellerID    INT         NOT NULL,
    SubCatID    INT         NOT NULL,
    CONSTRAINT PK_Listing PRIMARY KEY (ListingID),
    CONSTRAINT FK_Listing_Seller
        FOREIGN KEY (SellerID)  REFERENCES dbo.Seller(SellerID),
    CONSTRAINT FK_Listing_SubCategory
        FOREIGN KEY (SubCatID) REFERENCES dbo.SubCategory(SubCatID)
);
GO
```

```
-----------------------------------------------------------------------
-- BUMPORDER
-----------------------------------------------------------------------
CREATE TABLE dbo.BumpOrder
(
    BumpOrderID INT      NOT NULL,
    PurchaseDate DATE     NOT NULL,
    SellerID    INT     NOT NULL,
    BumpID      INT      NOT NULL,
    ListingID   INT     NOT NULL,
    CONSTRAINT PK_BumpOrder PRIMARY KEY (BumpOrderID),
    CONSTRAINT FK_BumpOrder_Seller
        FOREIGN KEY (SellerID)  REFERENCES dbo.Seller(SellerID),
    CONSTRAINT FK_BumpOrder_Bump
        FOREIGN KEY (BumpID)    REFERENCES dbo.Bump(BumpID),
    CONSTRAINT FK_BumpOrder_Listing
        FOREIGN KEY (ListingID)  REFERENCES dbo.Listing(ListingID)
);
GO


-----------------------------------------------------------------------
-- LISTINGPHOTO
-----------------------------------------------------------------------
CREATE TABLE dbo.ListingPhoto
(
    ListingID INT      NOT NULL,
    Photo     VARCHAR(10) NOT NULL,
    CONSTRAINT PK_ListingPhoto PRIMARY KEY (ListingID, Photo),
    CONSTRAINT FK_ListingPhoto_Listing
        FOREIGN KEY (ListingID) REFERENCES dbo.Listing(ListingID)
);
GO


-----------------------------------------------------------------------
-- CHAT
-----------------------------------------------------------------------
CREATE TABLE dbo.Chat
(
    ChatID   INT NOT NULL,
    BuyerID   INT NOT NULL,
    ListingID INT NOT NULL,
    CONSTRAINT PK_Chat PRIMARY KEY (ChatID),
    CONSTRAINT FK_Chat_Buyer
        FOREIGN KEY (BuyerID)   REFERENCES dbo.Buyer(BuyerID),
    CONSTRAINT FK_Chat_Listing
        FOREIGN KEY (ListingID) REFERENCES dbo.Listing(ListingID)
);
GO
```

```
----------------------------------------------------------------------
-- CHATMSG
----------------------------------------------------------------------
CREATE TABLE dbo.ChatMsg
(
    ChatID      INT         NOT NULL,
    MsgSN       INT         NOT NULL,
    MsgDateTime DATETIME    NOT NULL,
    Originator  VARCHAR(10)  NOT NULL,
    Msg         VARCHAR(MAX)  NOT NULL,

    CONSTRAINT PK_ChatMsg PRIMARY KEY (MsgSN, ChatID),
    CONSTRAINT FK_ChatMsg_Chat FOREIGN KEY (ChatID) REFERENCES
dbo.Chat(ChatID),
    CONSTRAINT CK_ChatMsg_Originator CHECK (Originator IN ('Seller', 'Buyer'))
);
GO




----------------------------------------------------------------------
-- LIKES
----------------------------------------------------------------------
CREATE TABLE dbo.Likes
(
    BuyerID   INT NOT NULL,  -- Alias for MemberID
    ListingID INT NOT NULL,
    DateLiked DATE NOT NULL,

    CONSTRAINT PK_Likes PRIMARY KEY (BuyerID, ListingID),


    CONSTRAINT FK_Likes_Buyer
        FOREIGN KEY (BuyerID) REFERENCES dbo.Buyer(BuyerID),

    CONSTRAINT FK_Likes_Listing
        FOREIGN KEY (ListingID) REFERENCES dbo.Listing(ListingID)
);
GO
```

```sql
---------------------------------------------------------------------
-- OFFER
---------------------------------------------------------------------
CREATE TABLE dbo.Offer
(
    OfferID     INT      NOT NULL,
    OfferPrice  MONEY    NOT NULL,
    OfferStatus CHAR(20) NOT NULL CHECK (OfferStatus IN ('Submitted', 'Pending',
'Accepted', 'Rejected', 'Completed')),
    OfferDate   DATE     NOT NULL,
    BuyerID     INT      NOT NULL,
    ListingID   INT      NOT NULL,
    CONSTRAINT PK_Offer PRIMARY KEY (OfferID),
    CONSTRAINT FK_Offer_Buyer
        FOREIGN KEY (BuyerID)   REFERENCES dbo.Buyer(BuyerID),
    CONSTRAINT FK_Offer_Listing
        FOREIGN KEY (ListingID) REFERENCES dbo.Listing(ListingID)
);
GO




---------------------------------------------------------------------
-- REVIEW
---------------------------------------------------------------------
CREATE TABLE dbo.Review
(
    ReviewID        INT      NOT NULL,
    ReviewDate      DATE     NOT NULL,
    MemberType      VARCHAR(6)   NOT NULL CHECK (MemberType IN ('Seller',
'Buyer')),
    ItemRank        CHAR(1)     NOT NULL CHECK (ItemRank BETWEEN '1' AND
'5'),
    DeliveryRank    CHAR(1)     NOT NULL CHECK (DeliveryRank BETWEEN '1'
AND '5'),
    CommunicationRank CHAR(1)    NOT NULL CHECK (CommunicationRank
BETWEEN '1' AND '5'),
    Comment         VARCHAR(MAX) NULL,
    OfferID         INT      NOT NULL,
    CONSTRAINT PK_Review PRIMARY KEY (ReviewID),
    CONSTRAINT FK_Review_Offer FOREIGN KEY (OfferID) REFERENCES
dbo.Offer(OfferID)
);
GO
```

```sql
-------------------------------------------------------------------
-- FEEDBKCATEGORY
-------------------------------------------------------------------
CREATE TABLE dbo.FeedbkCat
(
    FbkCatID    INT         NOT NULL,
    FbkCatDesc  VARCHAR(255) NOT NULL,
    CONSTRAINT PK_FeedbkCat PRIMARY KEY (FbkCatID)
);
GO


-------------------------------------------------------------------
-- FEEDBACK
-------------------------------------------------------------------
CREATE TABLE dbo.Feedback
(
    FbkID           INT         NOT NULL,
    FbkDesc         VARCHAR(MAX) NOT NULL,
    FbkDateTime     DATETIME    NOT NULL DEFAULT GETDATE(),
    FbkStatus       VARCHAR(15) NOT NULL CHECK (FbkStatus IN ('Pending',
'Received', 'Attention', 'Completed')),
    SatisfactionRank INT        NULL CHECK (SatisfactionRank BETWEEN 1 AND 5),
    FbkCatID        INT         NOT NULL,
    ByMemberID      INT         NOT NULL,
    OnMemberID      INT         NULL,
    StaffID         INT         NULL,
    CONSTRAINT PK_Feedback PRIMARY KEY (FbkID),
    CONSTRAINT FK_Feedback_FbkCat FOREIGN KEY (FbkCatID) REFERENCES
dbo.FeedbkCat(FbkCatID),
    CONSTRAINT FK_Feedback_ByMember FOREIGN KEY (ByMemberID)
REFERENCES dbo.Member(MemberID),
    CONSTRAINT FK_Feedback_OnMember FOREIGN KEY (OnMemberID)
REFERENCES dbo.Member(MemberID),
    CONSTRAINT FK_Feedback_Staff FOREIGN KEY (StaffID) REFERENCES
dbo.Staff(StaffID)
);
GO

PRINT 'All tables created successfully in MokeSell.';
```

II) Inserting of Data into Tables

```sql
USE MokeSell;
GO


/***************************************************************************
  1) CATEGORY
***************************************************************************/
INSERT INTO dbo.Category (CatID, CatDesc)
VALUES
(1, 'Electronics'),
(2, 'Fashion'),
(3, 'Home & Living'),
(4, 'Books & Hobbies'),
(5, 'Sports & Outdoors'),
(6, 'Beauty & Health'),
(7, 'Automotive'),
(8, 'Groceries'),
(9, 'Pet Supplies'),
(10,'Toys & Games');
GO



/***************************************************************************
  2) SUBCATEGORY
***************************************************************************/
INSERT INTO dbo.SubCategory (SubCatID, SubCatDesc, CatID)
VALUES
(101, 'Smartphones',            1),
(102, 'Laptops',                1),
(103, 'Wearable Tech',          1),
(104, 'Men''s Clothing',        2),
(105, 'Women''s Clothing',      2),
(106, 'Cosplay & Costumes',     2),
(107, 'Furniture',              3),
(108, 'Kitchen Appliances',     3),
(109, 'Lighting & Decor',       3),
(110, 'Fiction Books',          4),
(111, 'Board Games',            4),
(112, 'Gym & Fitness Equipment',5),
(113, 'Camping & Hiking Gear',  5),
(114, 'Hair Care Products',     6),
(115, 'Vitamins & Supplements', 6),
(116, 'Car Accessories',        7),
(117, 'Motorcycle Equipment',   7),
(118, 'Beverages & Snacks',     8),
(119, 'Pet Food & Treats',      9),
(120, 'Educational Toys',       10);
GO
```

```
/*************************************************************************
 3) MEMBER
*************************************************************************/
INSERT INTO dbo.Member (MemberID, MemberName, MemberDOB,
MemberEmail, DateJoined, MemberMobile, City)
VALUES
(1, 'John Doe', '1990-05-15', 'john.doe@email.com', '2024-11-01', '91234567',
'Singapore'),
(2, 'Jane Smith', '1992-08-22', 'jane.smith@email.com', '2024-11-02', '92345678',
'Singapore'),
(3, 'Bob Wilson', '1988-03-30', 'bob.wilson@email.com', '2024-11-03', '93456789',
'Singapore'),
(4, 'Alice Brown', '1995-11-12', 'alice.brown@email.com', '2024-11-04', '94567890',
'Singapore'),
(5, 'Charlie Chen', '1993-07-25', 'charlie.chen@email.com', '2024-11-05', '95678901',
'Singapore'),
(6, 'David Lee', '1987-09-18', 'david.lee@email.com', '2024-11-06', '96789012',
'Singapore'),
(7, 'Emma Tan', '1991-04-05', 'emma.tan@email.com', '2024-11-07', '97890123',
'Singapore'),
(8, 'Franklin Lim', '1994-06-21', 'franklin.lim@email.com', '2024-11-08', '98901234',
'Singapore'),
(9, 'Grace Wong', '1989-12-10', 'grace.wong@email.com', '2024-11-09', '99012345',
'Singapore'),
(10, 'Henry Goh', '1996-02-28', 'henry.goh@email.com', '2024-11-10', '90123456',
'Singapore'),
(11, 'Isabelle Chua', '1990-07-15', 'isabelle.chua@email.com', '2024-11-11',
'91234568', 'Singapore'),
(12, 'Jacky Teo', '1993-03-20', 'jacky.teo@email.com', '2024-11-12', '92345679',
'Singapore'),
(13, 'Kelly Ho', '1985-11-08', 'kelly.ho@email.com', '2024-11-13', '93456780',
'Singapore'),
(14, 'Leo Kwan', '1997-05-30', 'leo.kwan@email.com', '2024-11-14', '94567891',
'Singapore'),
(15, 'Mandy Seah', '1992-09-12', 'mandy.seah@email.com', '2024-11-15', '95678902',
'Singapore'),
(16, 'Nathaniel Low', '1994-12-25', 'nathaniel.low@email.com', '2024-11-16',
'96789013', 'Singapore'),
(17, 'Olivia Tan', '1991-06-17', 'olivia.tan@email.com', '2024-11-17', '97890124',
'Singapore'),
(18, 'Pauline Ng', '1988-08-29', 'pauline.ng@email.com', '2024-11-18', '98901235',
'Singapore'),
(19, 'Quincy Yap', '1995-10-03', 'quincy.yap@email.com', '2024-11-19', '99012346',
'Singapore'),
(20, 'Rachel Foo', '1990-01-22', 'rachel.foo@email.com', '2024-11-20', '90123457',
'Singapore'),
(21, 'Samuel Tan', '1986-04-11', 'samuel.tan@email.com', '2024-11-21', '91234569',
'Singapore'),
(22, 'Tiffany Toh', '1993-07-05', 'tiffany.toh@email.com', '2024-11-22', '92345680',
'Singapore'),
(23, 'Ulysses Koh', '1998-02-14', 'ulysses.koh@email.com', '2024-11-23', '93456781',
'Singapore'),
(24, 'Vanessa Choo', '1991-05-09', 'vanessa.choo@email.com', '2024-11-24',
'94567892', 'Singapore'),
```

(25, 'William Pang', '1989-09-26', 'william.pang@email.com', '2024-11-25', '95678903', 'Singapore'),
(26, 'Xavier Sim', '1994-11-18', 'xavier.sim@email.com', '2024-11-26', '96789014', 'Singapore'),
(27, 'Yvonne Ng', '1992-06-30', 'yvonne.ng@email.com', '2024-11-27', '97890125', 'Singapore'),
(28, 'Zachary Tan', '1990-03-07', 'zachary.tan@email.com', '2024-11-28', '98901236', 'Singapore'),
(29, 'Angela Lim', '1987-10-21', 'angela.lim@email.com', '2024-11-29', '99012347', 'Singapore'),
(30, 'Benjamin Ong', '1996-12-15', 'benjamin.ong@email.com', '2024-11-30', '90123458', 'Singapore'),
(31, 'Catherine Lee', '1988-07-03', 'catherine.lee@email.com', '2024-12-01', '91234570', 'Singapore'),
(32, 'Daniel Goh', '1992-02-19', 'daniel.goh@email.com', '2024-12-02', '92345681', 'Singapore'),
(33, 'Elaine Ho', '1985-05-14', 'elaine.ho@email.com', '2024-12-03', '93456782', 'Singapore'),
(34, 'Felix Tan', '1993-08-08', 'felix.tan@email.com', '2024-12-04', '94567893', 'Singapore'),
(35, 'Gina Wong', '1990-10-12', 'gina.wong@email.com', '2024-12-05', '95678904', 'Singapore'),
(36, 'Harrison Lim', '1994-01-27', 'harrison.lim@email.com', '2024-12-06', '96789015', 'Singapore'),
(37, 'Ivy Ng', '1987-04-09', 'ivy.ng@email.com', '2024-12-07', '97890126', 'Singapore'),
(38, 'Jason Teo', '1995-06-22', 'jason.teo@email.com', '2024-12-08', '98901237', 'Singapore'),
(39, 'Kylie Chia', '1989-03-31', 'kylie.chia@email.com', '2024-12-09', '99012348', 'Singapore'),
(40, 'Louis Pang', '1996-09-10', 'louis.pang@email.com', '2024-12-10', '90123459', 'Singapore'),
(41, 'Melissa Yeo', '1991-11-25', 'melissa.yeo@email.com', '2024-12-11', '91234571', 'Singapore'),
(42, 'Nigel Chan', '1993-07-07', 'nigel.chan@email.com', '2024-12-12', '92345682', 'Singapore'),
(43, 'Ophelia Koh', '1986-02-16', 'ophelia.koh@email.com', '2024-12-13', '93456783', 'Singapore'),
(44, 'Patrick Toh', '1992-05-20', 'patrick.toh@email.com', '2024-12-14', '94567894', 'Singapore'),
(45, 'Queenie Tan', '1997-08-03', 'queenie.tan@email.com', '2024-12-15', '95678905', 'Singapore'),
(46, 'Raphael Sim', '1994-12-14', 'raphael.sim@email.com', '2024-12-16', '96789016', 'Singapore'),
(47, 'Samantha Foo', '1990-10-29', 'samantha.foo@email.com', '2024-12-17', '97890127', 'Singapore'),
(48, 'Timothy Loh', '1988-06-18', 'timothy.loh@email.com', '2024-12-18', '98901238', 'Singapore'),
(49, 'Uma Devi', '1995-09-02', 'uma.devi@email.com', '2024-12-19', '99012349', 'Singapore'),
(50, 'Victor Heng', '1991-04-11', 'victor.heng@email.com', '2024-12-20', '90123460', 'Singapore'),
(51, 'Ahmad Hamzah', '1989-07-14', 'ahmad.hamzah@email.com', '2024-12-21', '60123456789', 'Kuala Lumpur'),

(52, 'Lim Wei Jian', '1993-02-25', 'lim.wei.jian@email.com', '2024-12-22', '60123456790', 'Penang'),
(53, 'Nur Aisyah', '1997-10-10', 'nur.aisyah@email.com', '2024-12-23', '60123456791', 'Johor Bahru'),
(54, 'Siti Zainab', '1990-12-30', 'siti.zainab@email.com', '2024-12-24', '60123456792', 'Kuching'),
(55, 'Tan Kok Leong', '1988-04-18', 'tan.kok.leong@email.com', '2024-12-25', '60123456793', 'Malacca'),
(56, 'Pongsak Chaiyaphan', '1995-08-22', 'pongsak.chaiyaphan@email.com', '2024-12-26', '66812345678', 'Bangkok'),
(57, 'Natcha Rattanaporn', '1991-11-03', 'natcha.rattanaporn@email.com', '2024-12-27', '66812345679', 'Chiang Mai'),
(58, 'Somchai Boonmee', '1987-06-14', 'somchai.boonmee@email.com', '2024-12-28', '66812345680', 'Phuket'),
(59, 'Waranya Jindaporn', '1994-03-28', 'waranya.jindaporn@email.com', '2024-12-29', '66812345681', 'Pattaya'),
(60, 'Kritsada Thongchai', '1992-01-15', 'kritsada.thongchai@email.com', '2024-12-30', '66812345682', 'Krabi'),
(61, 'Budi Santoso', '1990-05-09', 'budi.santoso@email.com', '2024-12-01', '62812345678', 'Jakarta'),
(62, 'Dewi Lestari', '1985-07-17', 'dewi.lestari@email.com', '2024-12-02', '62812345679', 'Surabaya'),
(63, 'Rizky Pratama', '1996-09-21', 'rizky.pratama@email.com', '2024-12-03', '62812345680', 'Bandung'),
(64, 'Siti Rahmawati', '1989-12-05', 'siti.rahmawati@email.com', '2024-12-04', '62812345681', 'Medan'),
(65, 'Agus Wijaya', '1993-04-11', 'agus.wijaya@email.com', '2024-12-05', '62812345682', 'Bali');
GO

```
/*************************************************************************
 4) SELLER
*************************************************************************/
INSERT INTO dbo.Seller (SellerID)
VALUES
(3), (4), (5), (6), (7), (8), (9), (1), (10), (11),
(12), (13), (14), (15), (21), (22), (23), (25),
(26), (27), (28), (32), (33), (34), (35), (45),
(46), (51), (52), (53), (54), (57), (59), (60),
(61), (62), (64), (65);
GO
```

```
/***************************************************************************
 5) BUYER
***************************************************************************/
INSERT INTO dbo.Buyer (BuyerID)
VALUES
(1), (2), (3), (4), (5), (6), (7), (8), (9), (10),
(11), (12), (13), (14), (15), (16), (17), (18), (19), (20),
(21), (22), (23), (24), (25), (26), (27), (28), (29), (30),
(31), (32), (33), (34), (35), (36), (37), (38), (39), (40),
(41), (42), (43), (44), (45), (46), (47), (48), (49), (50),
(51), (52), (53), (54), (55), (56), (57), (58), (59), (60),
(62), (63), (65);
GO


/***************************************************************************
 6) STEP 1: STAFF (First Insert Without TeamID)
***************************************************************************/
INSERT INTO dbo.Staff (StaffID, StaffName, StaffDateJoined, StaffMobile, TeamID)
VALUES
-- 8 Future Team Leaders (Leave TeamID NULL for now)
(1, 'Alice Tan', '2023-02-01', '98760001', NULL),
(2, 'Cindy Wang', '2023-04-05', '98760002', NULL),
(3, 'Elaine Ng', '2023-05-11', '98760003', NULL),
(4, 'George Lim', '2023-07-15', '98760004', NULL),
(5, 'John Foo', '2023-08-01', '98760005', NULL),
(6, 'Mary Koh', '2023-09-10', '98760006', NULL),
(7, 'Nathan Lee', '2023-10-15', '98760007', NULL),
(8, 'Olivia Tan', '2023-11-20', '98760008', NULL),
-- 22 Regular Staff (No TeamID Assigned)
(9, 'Brian Chia', '2023-02-12', '98760009', NULL),
(10, 'Sara Wong', '2023-03-22', '98760010', NULL),
(11, 'Kevin Goh', '2023-04-30', '98760011', NULL),
(12, 'Darren Foo', '2023-05-14', '98760012', NULL),
(13, 'Lydia Lim', '2023-06-05', '98760013', NULL),
(14, 'Tommy Ong', '2023-07-11', '98760014', NULL),
(15, 'Hannah Cheng', '2023-08-22', '98760015', NULL),
(16, 'Xavier Ng', '2023-09-01', '98760016', NULL),
(17, 'Victoria Tan', '2023-10-07', '98760017', NULL),
(18, 'Wayne Sim', '2023-11-30', '98760018', NULL),
(19, 'Jasmine Ong', '2023-12-05', '98760019', NULL),
(20, 'Lucas Chen', '2024-01-15', '98760020', NULL),
(21, 'Nina Tay', '2024-02-10', '98760021', NULL),
(22, 'Zachary Wong', '2024-03-19', '98760022', NULL),
(23, 'Eleanor Lee', '2024-04-25', '98760023', NULL),
(24, 'Marcus Tan', '2024-05-10', '98760024', NULL),
(25, 'Rachel Goh', '2024-06-11', '98760025', NULL),
(26, 'David Ong', '2024-07-12', '98760026', NULL),
(27, 'Samantha Ng', '2024-08-23', '98760027', NULL),
(28, 'Isaac Lee', '2024-09-14', '98760028', NULL),
(29, 'Vanessa Chia', '2024-10-15', '98760029', NULL),
(30, 'Julian Koh', '2024-11-26', '98760030', NULL);
GO
```

```
/***************************************************************************
 7) STEP 2: TEAMS (Now Insert into Teams Since Staff Exists, assign Teams to their
 Team Leaders)
 ***************************************************************************/
INSERT INTO dbo.Team (TeamID, TeamName, TeamLeaderID)
VALUES
(1, 'Customer Support', 1),
(2, 'Maintenance Team', 2),
(3, 'Quality Assurance', 3),
(4, 'Logistics & Shipping', 4),
(5, 'Extra Team #5', 5),
(6, 'Extra Team #6', 6),
(7, 'Extra Team #7', 7),
(8, 'Extra Team #8', 8),
(9, 'Extra Team #9', 9),
(10, 'Extra Team #10', 10);
GO


/***************************************************************************
 6) STEP 3: UPDATE STAFF (Assign Team Leaders to Their Teams)
 ***************************************************************************/
UPDATE dbo.Staff SET TeamID = 1 WHERE StaffID = 1;
UPDATE dbo.Staff SET TeamID = 2 WHERE StaffID = 2;
UPDATE dbo.Staff SET TeamID = 3 WHERE StaffID = 3;
UPDATE dbo.Staff SET TeamID = 4 WHERE StaffID = 4;
UPDATE dbo.Staff SET TeamID = 5 WHERE StaffID = 5;
UPDATE dbo.Staff SET TeamID = 6 WHERE StaffID = 6;
UPDATE dbo.Staff SET TeamID = 7 WHERE StaffID = 7;
UPDATE dbo.Staff SET TeamID = 8 WHERE StaffID = 8;
UPDATE dbo.Staff SET TeamID = 9 WHERE StaffID = 9;
UPDATE dbo.Staff SET TeamID = 10 WHERE StaffID = 10;
GO


/***************************************************************************
 6) STEP 4: UPDATE REGULAR STAFF (Assign Non-Leaders to Teams)
 ***************************************************************************/
-- Assign non-leader staff to teams in a round-robin manner
UPDATE dbo.Staff SET TeamID = 1 WHERE StaffID IN (11);
UPDATE dbo.Staff SET TeamID = 2 WHERE StaffID IN (12, 13, 14);
UPDATE dbo.Staff SET TeamID = 3 WHERE StaffID IN (15, 16, 17);
UPDATE dbo.Staff SET TeamID = 4 WHERE StaffID IN (18, 19, 20);
UPDATE dbo.Staff SET TeamID = 5 WHERE StaffID IN (21, 22, 23);
UPDATE dbo.Staff SET TeamID = 6 WHERE StaffID IN (24, 25, 26);
UPDATE dbo.Staff SET TeamID = 7 WHERE StaffID IN (27, 28, 29);
UPDATE dbo.Staff SET TeamID = 8 WHERE StaffID IN (30);
GO
```

```
/*************************************************************************
  8) AWARD
**************************************************************************/
INSERT INTO dbo.Award (AwardID, AwardName, AwardAmt)
VALUES
(1, 'Team of the Quarter', 1500),
(2, 'Excellence in Support', 1000),
(3, 'Top Innovator', 2000),
(4, 'Outstanding Efficiency', 800),
(5, 'Best Collaboration', 1200),
(6, 'Best Customer Service', 1000),
(7, 'Top Sales Team', 2000),
(8, 'Innovation Award', 1500),
(9, 'Employee of the Month', 500),
(10, 'Team Excellence Award', 1200);
GO


/*************************************************************************
  9) WIN (teams #1..3..4, etc.)
**************************************************************************/
INSERT INTO dbo.Win (AwardID, TeamID, DateAwarded)
VALUES
(1, 1, '2024-02-01'),
(2, 1, '2024-03-05'),
(3, 2, '2024-03-10'),
(4, 3, '2024-04-15'),
(5, 3, '2024-04-20'),
(2, 4, '2024-05-10'),
(1, 2, '2024-06-01'),
(6, 1, '2024-07-01'),
(7, 2, '2024-08-15'),
(8, 3, '2024-09-10'),
(9, 4, '2024-10-05'),
(10, 5, '2024-11-20');
GO


/*************************************************************************
  10) FEEDBKCATEGORY
**************************************************************************/
INSERT INTO dbo.FeedbkCat (FbkCatID, FbkCatDesc)
VALUES
(1, 'Technical Problem'),
(2, 'User Complaint'),
(3, 'Listing Issue'),
(4, 'Payment Problem'),
(5, 'General Inquiry'),
(6, 'Account Issues'),
(7, 'Listing Disputes'),
(8, 'Shipping Problems'),
(9, 'Refund Requests'),
(10, 'App Feedback');
GO
```

```
/*************************************************************************
  11) BUMP
*************************************************************************/
INSERT INTO dbo.Bump (BumpID, BumpDesc, BumpPrice)
VALUES
(1, 'Single Bump (24h)', 1.99),
(2, 'Daily Bump - 3 Days', 4.99),
(3, 'Daily Bump - 7 Days', 9.99),
(4, 'Premium Bump 14 Days', 19.99),
(5, 'Featured Listing', 29.99),
(6, 'Weekly Bump', 14.99),
(7, 'Featured Listing - 3 Days', 24.99),
(8, 'Premium Bump - 30 Days', 49.99),
(9, 'Flash Sale Bump', 9.99),
(10, 'Seasonal Bump', 99.99);
GO



/*************************************************************************
  12) LISTING
*************************************************************************/
INSERT INTO dbo.Listing (ListingID, ListDesc, ListDateTime, ListPrice, ListStatus,
SubCatID, SellerID)
VALUES
(1, 'Used iPhone X - Good Condition', '2025-01-12', 380.00, 'Available', 101, 3),
(2, 'Gaming Laptop (Acer Predator)', '2025-01-14', 1200.00, 'Available', 102, 3),
(3, 'Handmade Wooden Table', '2025-01-16', 200.00, 'Available', 107, 4),
(4, 'Board Game: Catan', '2025-01-18', 45.00, 'Sold', 111, 4),
(5, 'Tent & Camping Set', '2025-01-20', 150.00, 'Available', 113, 5),
(6, 'Car Dash Cam - Full HD', '2024-11-10', 99.00, 'Inactive', 116, 6),
(7, 'Motorcycle Helmet', '2025-01-22', 80.00, 'Sold', 117, 6),
(8, 'Vitamin C Supplements', '2025-01-23', 25.00, 'Available', 115, 7),
(9, 'Pet Dog Kibble 10kg', '2025-01-24', 35.00, 'Available', 119, 7),
(10, 'Dumbbells 5kg Pair', '2025-01-25', 40.00, 'Available', 112, 5),
(11, 'Wireless Earbuds - Noise Cancelling', '2024-11-05', 85.00, 'Inactive', 101, 8),
(12, 'Gaming Chair - Ergonomic Design', '2025-01-15', 250.00, 'Available', 102, 8),
(13, 'Vintage Wooden Bookshelf', '2025-01-17', 180.00, 'Sold', 107, 9),
(14, 'Chess Set - Mahogany Edition', '2025-01-19', 60.00, 'Available', 111, 9),
(15, 'Hiking Backpack 50L', '2025-01-21', 90.00, 'Available', 113, 10),
(16, 'Wireless Security Camera', '2025-01-23', 120.00, 'Available', 116, 11),
(17, 'Bicycle Helmet - Lightweight', '2025-01-24', 55.00, 'Sold', 117, 11),
(18, 'Omega-3 Fish Oil Capsules', '2025-01-10', 30.00, 'Available', 115, 12),
(19, 'Cat Litter 20L', '2025-01-11', 28.00, 'Available', 119, 12),
(20, 'Yoga Mat - Non-slip', '2024-11-08', 25.00, 'Inactive', 112, 10),
(21, 'Bluetooth Speaker - Waterproof', '2025-01-13', 75.00, 'Available', 101, 13),
(22, 'Mechanical Gaming Keyboard', '2025-01-14', 110.00, 'Available', 102, 13),
(23, 'Wooden Coffee Table', '2025-01-16', 220.00, 'Sold', 107, 14),
(24, 'Scrabble Board Game', '2025-01-18', 35.00, 'Available', 111, 14),
(25, 'Camping Sleeping Bag', '2025-01-20', 70.00, 'Available', 113, 15),
(26, 'Smart Door Lock', '2025-01-22', 180.00, 'Available', 116, 28),
(27, 'Motorbike Gloves', '2025-01-23', 45.00, 'Sold', 117, 34),
(28, 'Protein Powder 2kg', '2025-01-24', 60.00, 'Available', 115, 45),
(29, 'Dog Chew Toys Set', '2025-01-25', 20.00, 'Available', 119, 46),
(30, 'Adjustable Dumbbells 10kg', '2024-11-15', 90.00, 'Inactive', 112, 15),
```

(31, 'Samsung Galaxy S22 - Mint Condition', '2025-01-12', 750.00, 'Available', 101, 21),
(32, 'Apple MacBook Air M2', '2025-01-14', 1300.00, 'Available', 102, 22),
(33, 'Fossil Gen 6 Smartwatch', '2025-01-16', 250.00, 'Sold', 103, 23),
(34, 'Nike Men's Running Shoes', '2025-01-18', 90.00, 'Available', 104, 25),
(35, 'Leather Handbag - Women's Fashion', '2025-01-20', 120.00, 'Available', 105, 26),
(36, 'Halloween Costume - Vampire', '2024-11-10', 60.00, 'Inactive', 106, 27),
(37, 'Modern Office Desk', '2025-01-22', 200.00, 'Sold', 107, 28),
(38, 'Air Fryer - 5L Capacity', '2025-01-23', 80.00, 'Available', 108, 32),
(39, 'LED Desk Lamp with Wireless Charging', '2025-01-24', 40.00, 'Available', 109, 33),
(40, 'Harry Potter Hardcover Set', '2025-01-25', 180.00, 'Available', 110, 34),
(41, 'Pandemic Board Game', '2024-11-05', 50.00, 'Inactive', 111, 35),
(42, 'Treadmill - Foldable Design', '2025-01-15', 650.00, 'Available', 112, 45),
(43, 'Portable Camping Stove', '2025-01-17', 45.00, 'Sold', 113, 46),
(44, 'Dyson Hair Dryer', '2025-01-19', 350.00, 'Available', 114, 51),
(45, 'Vitamin D3 Supplements', '2025-01-21', 25.00, 'Available', 115, 52),
(46, 'Leather Car Seat Covers', '2025-01-23', 95.00, 'Available', 116, 53),
(47, 'Motorcycle Riding Jacket', '2025-01-24', 140.00, 'Sold', 117, 54),
(48, 'Organic Green Tea - 500g', '2025-01-10', 35.00, 'Available', 118, 57),
(49, 'Premium Cat Food - 5kg', '2025-01-11', 55.00, 'Available', 119, 59),
(50, 'STEM Robotics Kit for Kids', '2024-11-08', 110.00, 'Inactive', 120, 60),
(51, 'IPhone 15 Pro Max', '2025-01-13', 1488.00, 'Available', 101, 61),
(52, 'Asus ROG Gaming Laptop', '2025-01-14', 2200.00, 'Available', 102, 62),
(53, 'Garmin Venu 2 Smartwatch', '2025-01-16', 399.00, 'Sold', 103, 64),
(54, 'Men's Leather Jacket', '2025-01-18', 150.00, 'Available', 104, 65),
(55, 'Women's Designer Watch', '2025-01-20', 275.00, 'Available', 105, 3),
(56, 'Superhero Costume - Kids', '2024-11-10', 40.00, 'Inactive', 106, 4),
(57, 'Oak Bookshelf - 5 Shelves', '2025-01-22', 300.00, 'Sold', 107, 5),
(58, 'Rice Cooker - 10 Cup Capacity', '2025-01-23', 55.00, 'Available', 108, 6),
(59, 'Smart LED Bulb - WiFi Controlled', '2025-01-24', 30.00, 'Available', 109, 7),
(60, 'The Lord of the Rings Trilogy', '2025-01-25', 120.00, 'Available', 110, 8);
GO

```
/**************************************************************************
 13) OFFER
**************************************************************************/
INSERT INTO dbo.Offer (OfferID, OfferDate, OfferPrice, OfferStatus, ListingID,
BuyerID)
VALUES
(1, '2025-01-14', 350.00, 'Pending',   1, 5),
(2, '2025-01-16', 1100.00, 'Submitted', 2, 6),
(3, '2025-01-18', 100.00, 'Completed',  3, 7),
(4, '2025-01-20', 40.00,  'Rejected',   4, 8),
(5, '2025-01-22', 140.00, 'Completed',  5, 9),
(6, '2024-11-12', 90.00,  'Accepted',   6, 10),
(7, '2025-01-25', 25.00,  'Pending',    8, 11),
(8, '2025-01-26', 30.00,  'Submitted',  9, 12),
(9, '2025-01-27', 310.00, 'Pending',    10, 13),
(10, '2025-01-16', 400.00, 'Completed',  2, 14),
(11, '2025-01-18', 150.00, 'Rejected',  3, 15),
(12, '2025-01-20', 275.00, 'Pending',    4, 16),
(13, '2025-01-22', 500.00, 'Completed',  5, 17),
(14, '2024-11-12', 80.00,  'Accepted',  6, 18),
(15, '2025-01-24', 60.00,  'Pending',    7, 19),
(16, '2025-01-25', 250.00, 'Rejected',  8, 20),
(17, '2025-01-26', 340.00, 'Submitted', 9, 21),
(18, '2025-01-27', 120.00, 'Pending',    10, 22),
(19, '2025-01-14', 375.00, 'Completed',  1, 23),
(20, '2025-01-16', 410.00, 'Accepted',  2, 24),
(21, '2025-01-18', 230.00, 'Pending',    3, 25),
(22, '2025-01-20', 520.00, 'Completed',  4, 26),
(23, '2025-01-22', 95.00,  'Rejected',  5, 27),
(24, '2024-11-12', 260.00, 'Submitted', 6, 28),
(25, '2025-01-24', 110.00, 'Pending',    7, 29),
(26, '2025-01-25', 290.00, 'Completed',  8, 30),
(27, '2025-01-26', 370.00, 'Rejected',  9, 31),
(28, '2025-01-27', 135.00, 'Pending',    10, 32),
(29, '2025-01-14', 450.00, 'Completed',  1, 33),
(30, '2025-01-16', 420.00, 'Accepted',  2, 34),
(31, '2025-01-18', 280.00, 'Pending',    3, 35),
(32, '2025-01-20', 540.00, 'Completed',  4, 36),
(33, '2025-01-22', 85.00,  'Rejected',  5, 37),
(34, '2024-11-12', 255.00, 'Submitted', 6, 38),
(35, '2025-01-24', 130.00, 'Pending',    7, 39),
(36, '2025-01-25', 300.00, 'Completed',  8, 40),
(37, '2025-01-26', 365.00, 'Rejected',  9, 41),
(38, '2025-01-27', 150.00, 'Pending',    10, 42),
(39, '2025-01-14', 460.00, 'Completed',  1, 43),
(40, '2025-01-16', 430.00, 'Accepted',  2, 44),
(41, '2025-01-18', 285.00, 'Pending',    3, 45),
(42, '2025-01-20', 560.00, 'Completed',  4, 46),
(43, '2025-01-22', 90.00,  'Rejected',  5, 47),
(44, '2024-11-12', 270.00, 'Submitted', 6, 48),
(45, '2025-01-24', 120.00, 'Pending',    7, 49),
(46, '2025-01-25', 310.00, 'Completed',  8, 50);
GO
```

```
/*************************************************************************
  14) CHAT
**************************************************************************/
INSERT INTO dbo.Chat (ChatID, ListingID, BuyerID)
VALUES
(1, 1, 5),
(2, 2, 6),
(3, 3, 7),
(4, 4, 8),
(5, 5, 9),
(6, 6, 5),
(7, 7, 7),
(8, 8, 8),
(9, 9, 9),
(10, 10, 10);
GO


/*************************************************************************
  15) CHATMSG
**************************************************************************/

INSERT INTO dbo.ChatMsg (ChatID, MsgSN, MsgDateTime, Originator, Msg)
VALUES
(1, 1, '2025-01-18 09:00:00', 'Buyer',  'Is the iPhone still available?'),
(1, 2, '2025-01-18 09:05:00', 'Seller', 'Yes, it is.'),
(1, 3, '2025-01-18 09:10:00', 'Buyer',  'Can lower price?'),
(2, 1, '2025-01-19 10:00:00', 'Buyer',  'Does the laptop come with warranty?'),
(2, 2, '2025-01-19 10:15:00', 'Seller', '3 months left on it.'),
(3, 1, '2025-01-19 14:20:00', 'Buyer',  'Hello, can I pick up this weekend?'),
(3, 2, '2025-01-19 14:30:00', 'Seller', 'Yes, that works.'),
(4, 1, '2025-01-20 11:00:00', 'Buyer',  'Is Catan game complete set?'),
(5, 1, '2025-01-20 12:30:00', 'Buyer',  'Interested in the camping set.'),
(5, 2, '2025-01-20 12:35:00', 'Seller', 'Still available.'),
(6, 1, '2025-01-21 09:00:00', 'Buyer',  'Regarding the dash cam, any discount?'),
(6, 2, '2025-01-21 09:10:00', 'Seller', 'Sure, can do $90.'),
(7, 1, '2025-01-18 10:00:00', 'Buyer', 'Is this still available?'),
(7, 2, '2025-01-18 10:05:00', 'Seller', 'Yes, it is.'),
(8, 1, '2025-01-19 11:00:00', 'Buyer', 'Can you lower the price?'),
(8, 2, '2025-01-19 11:05:00', 'Seller', 'Sorry, price is fixed.'),
(9, 1, '2025-01-20 12:00:00', 'Buyer', 'When can I pick up?'),
(9, 2, '2025-01-20 12:05:00', 'Seller', 'This weekend works.'),
(10, 1, '2025-01-21 13:00:00', 'Buyer', 'Is this item new?'),
(10, 2, '2025-01-21 13:05:00', 'Seller', 'Yes, brand new.');
GO
```

```
/*************************************************************************
  16) LISTINGPHOTO
*************************************************************************/
INSERT INTO dbo.ListingPhoto (ListingID, Photo)
VALUES
(1, 'Pic1'), (1, 'Pic2'), (2, 'Pic1'), (3, 'Pic1'), (3, 'Pic2'), (4, 'Pic1'), (5, 'Pic1'),
(6, 'Pic1'), (6, 'Pic2'), (7, 'Pic1'), (8, 'Pic1'), (9, 'Pic1'), (10, 'Pic1'), (11, 'Pic1'),
(11, 'Pic2'), (12, 'Pic1'), (12, 'Pic2'), (13, 'Pic1'), (14, 'Pic1'), (15, 'Pic1'), (15, 'Pic2'),
(16, 'Pic1'), (16, 'Pic2'), (17, 'Pic1'), (18, 'Pic1'), (19, 'Pic1'), (20, 'Pic1'), (21, 'Pic1'),
(22, 'Pic1'), (23, 'Pic1'), (23, 'Pic2'), (24, 'Pic1'), (25, 'Pic1'), (26, 'Pic1'), (27, 'Pic1'),
(28, 'Pic1'), (29, 'Pic1'), (30, 'Pic1'), (31, 'Pic1'), (31, 'Pic2'), (32, 'Pic1'), (33, 'Pic1'),
(34, 'Pic1'), (35, 'Pic1'), (36, 'Pic1'), (37, 'Pic1'), (38, 'Pic1'), (39, 'Pic1'), (40, 'Pic1'),
(41, 'Pic1'), (42, 'Pic1'), (43, 'Pic1'), (44, 'Pic1'), (45, 'Pic1'), (46, 'Pic1'), (47, 'Pic1'),
(48, 'Pic1'), (49, 'Pic1'), (50, 'Pic1'), (51, 'Pic1'), (52, 'Pic1'), (53, 'Pic1'), (54, 'Pic1'),
(55, 'Pic1'), (56, 'Pic1'), (57, 'Pic1'), (58, 'Pic1'), (59, 'Pic1'), (60, 'Pic1');
GO


/*************************************************************************
  17) FOLLOWER
*************************************************************************/
INSERT INTO dbo.Follower (MemberID, FollowerID, DateStarted)
VALUES
(3, 1, '2024-12-22'),
(3, 2, '2024-12-22'),
(5, 3, '2024-12-23'),
(6, 3, '2024-12-25'),
(7, 4, '2024-12-25'),
(8, 5, '2024-12-26'),
(9, 5, '2024-12-27'),
(10, 6, '2024-12-28'),
(3, 4, '2024-12-29'),
(6, 7, '2024-12-29'),
(7, 8, '2024-12-30'),
(10, 11, '2025-01-05'),
 (12, 13, '2025-01-06'),
 (14, 15, '2025-01-07'),
(16, 17, '2025-01-08'),
(18, 19, '2025-01-09'),
(20, 21, '2025-01-10'),
(22, 23, '2025-01-11'),
(25, 9, '2025-01-12'),
(11, 20, '2025-01-12'),
(18, 13, '2025-01-12'),
(15, 17, '2025-01-12'),
(21, 14, '2025-01-13'),
(2, 5, '2025-01-13'),
(19, 6, '2025-01-14'),
(25, 24, '2025-01-14'),
(28, 29, '2025-01-14'),
(23, 30, '2025-01-15'),
(27, 18, '2025-01-15'),
(12, 10, '2025-01-15'),
(29, 8, '2025-01-16'),
(1, 2, '2025-01-16'),
```

(13, 25, '2025-01-16'),
(5, 6, '2025-01-16'),
(9, 7, '2025-01-16'),
(21, 22, '2025-01-17'),
(4, 9, '2025-01-17'),
(3, 20, '2025-01-17'),
(16, 11, '2025-01-18'),
(17, 24, '2025-01-18'),
(8, 14, '2025-01-18'),
(20, 3, '2025-01-18'),
(6, 4, '2025-01-19'),
(30, 10, '2025-01-19'),
(22, 5, '2025-01-20'),
(14, 16, '2025-01-20'),
(26, 7, '2025-01-20'),
(10, 25, '2025-01-21'),
(7, 9, '2025-01-21'),
(9, 4, '2025-01-21'),
(2, 12, '2025-01-21'),
(24, 17, '2025-01-21'),
(1, 13, '2025-01-22'),
(3, 10, '2025-01-22'),
(20, 6, '2025-01-23'),
(20, 12, '2025-01-23'),
(20, 17, '2025-01-23'),
(20, 19, '2025-01-23'),
(20, 25, '2025-01-24'),
(20, 30, '2025-01-25');
GO

```
/*************************************************************************
  18) LIKES
*************************************************************************/
INSERT INTO dbo.Likes (BuyerID, ListingID, DateLiked)
VALUES
(10, 1, '2025-01-12'),
(11, 1, '2025-01-12'),
(1, 1, '2025-01-24'),
(2, 1, '2025-01-13'),
(36, 1, '2025-01-19'),
(37, 1, '2025-01-19'),
(27, 1, '2025-01-24'),
(12, 2, '2025-01-14'),
(13, 2, '2025-01-14'),
(14, 3, '2025-01-16'),
(15, 3, '2025-01-16'),
(16, 4, '2025-01-18'),
(17, 4, '2025-01-18'),
(18, 5, '2025-01-20'),
(19, 5, '2025-01-20'),
(20, 6, '2024-11-10'),
(21, 6, '2024-11-10'),
(22, 7, '2025-01-22'),
(24, 8, '2025-01-23'),
(25, 8, '2025-01-23'),
(26, 9, '2025-01-24'),
(27, 9, '2025-01-24'),
(28, 10, '2025-01-25'),
(29, 10, '2025-01-25'),
(30, 11, '2024-11-05'),
(31, 11, '2024-11-05'),
(32, 12, '2025-01-15'),
(33, 12, '2025-01-15'),
(38, 15, '2025-01-21'),
(39, 15, '2025-01-21'),
(40, 16, '2025-01-23'),
(41, 16, '2025-01-23'),
(43, 16, '2025-01-24'),
(1, 16, '2025-01-24'),
(42, 17, '2025-01-24'),
(44, 18, '2025-01-10'),
(45, 18, '2025-01-10'),
(46, 19, '2025-01-11'),
(47, 19, '2025-01-11'),
(48, 20, '2024-11-08'),
(49, 20, '2024-11-08'),
(50, 21, '2025-01-13'),
(51, 21, '2025-01-13'),
(52, 22, '2025-01-14'),
(53, 22, '2025-01-14'),
(55, 23, '2025-01-16'),
(57, 24, '2025-01-18'),
(58, 25, '2025-01-20'),
(59, 25, '2025-01-20'),
(60, 26, '2025-01-22'),
```

```
(59, 26, '2025-01-22'),
(63, 26, '2025-01-23'),
(63, 27, '2025-01-23'),
(48, 28, '2025-01-24'),
(65, 28, '2025-01-24'),
(30, 29, '2025-01-25'),
(25, 29, '2025-01-25'),
(57, 30, '2024-11-15'),
(48, 30, '2024-11-15'),
(1, 31, '2025-01-12'),
(2, 31, '2025-01-12'),
(3, 32, '2025-01-14'),
(4, 32, '2025-01-14'),
(5, 33, '2025-01-16'),
(6, 33, '2025-01-16'),
(7, 34, '2025-01-18'),
(8, 34, '2025-01-18'),
(9, 35, '2025-01-20'),
(10, 35, '2025-01-20'),
(13, 37, '2025-01-22'),
(14, 37, '2025-01-22'),
(15, 38, '2025-01-23'),
(16, 38, '2025-01-23'),
(17, 39, '2025-01-24'),
(18, 39, '2025-01-24'),
(19, 40, '2025-01-25'),
(20, 40, '2025-01-25'),
(21, 41, '2024-11-05'),
(22, 41, '2024-11-05'),
(23, 42, '2025-01-15'),
(24, 42, '2025-01-15'),
(25, 43, '2025-01-17'),
(26, 43, '2025-01-17'),
(27, 44, '2025-01-19'),
(28, 44, '2025-01-19'),
(11, 44, '2025-01-20'),
(12, 44, '2025-01-20'),
(29, 45, '2025-01-21'),
(30, 45, '2025-01-21'),
(31, 46, '2025-01-23'),
(32, 46, '2025-01-23'),
(33, 47, '2025-01-24'),
(34, 47, '2025-01-24'),
(35, 48, '2025-01-10'),
(37, 49, '2025-01-11'),
(38, 49, '2025-01-11'),
(39, 50, '2024-11-08'),
(40, 50, '2024-11-08'),
(41, 51, '2025-01-13'),
(42, 51, '2025-01-13'),
(43, 52, '2025-01-14'),
(44, 52, '2025-01-14'),
(45, 53, '2025-01-16'),
(46, 53, '2025-01-16'),
(47, 54, '2025-01-18'),
```

```
(48, 54, '2025-01-18'),
(36, 54, '2025-01-19'),
(49, 55, '2025-01-20'),
(50, 55, '2025-01-20'),
(36, 55, '2025-01-20'),
(51, 56, '2024-11-10'),
(52, 56, '2024-11-10'),
(53, 57, '2025-01-22'),
(54, 57, '2025-01-22'),
(55, 58, '2025-01-23'),
(56, 58, '2025-01-23'),
(57, 59, '2025-01-24'),
(58, 59, '2025-01-24'),
(59, 60, '2025-01-25'),
(38, 60, '2025-01-25');
GO
```

```
/***************************************************************************
   19) FEEDBACK (Updated StaffID to match existing staff)
****************************************************************************/
INSERT INTO dbo.Feedback (FbkID, FbkDesc, FbkStatus, SatisfactionRank,
ByMemberID, FbkCatID, OnMemberID, StaffID)
VALUES
(1, 'App keeps crashing', 'Pending', 2, 1, 1, NULL, 3),
(2, 'Seller was rude', 'Completed', 1, 8, 2, 3, 1),
(3, 'Missing product info', 'Attention', 3, 7, 3, 5, NULL),
(4, 'Payment not working', 'Pending', 2, 9, 4, NULL, 7),
(5, 'General question', 'Completed', 3, 2, 5, NULL, 5),
(6, 'Item never arrived', 'Completed', 1, 5, 3, 6, 9),
(7, 'Listing images broken', 'Attention', 4, 10, 3, 8, NULL),
(8, 'Staff was very helpful', 'Completed', 5, 4, 2, NULL, 11),
(9, 'Refund request denied', 'Pending', 2, 6, 4, 7, 2),
(10, 'Incorrect item sent', 'Completed', 3, 3, 2, 10, 8),
(11, 'Delayed response from support', 'Attention', 2, 12, 1, NULL, 6),
(12, 'Payment double charged', 'Completed', 4, 14, 5, NULL, 9),
(13, 'Account suspension issue', 'Pending', 3, 11, 3, NULL, 4),
(14, 'Item not as described', 'Attention', 2, 7, 2, 12, 1),
(15, 'Confusing UI', 'Completed', 4, 5, 1, NULL, 10),
(16, 'Delayed shipment', 'Pending', 3, 9, 4, 15, 3),
(17, 'Spam messages received', 'Completed', 5, 13, 5, NULL, 7),
(18, 'Unresponsive seller', 'Attention', 2, 8, 3, 16, 5),
(19, 'Promotional email opt-out issue', 'Completed', 4, 10, 1, NULL, 12),
(20, 'Support ticket unanswered', 'Pending', 2, 15, 4, NULL, 6),
(21, 'Wrong tracking number', 'Completed', 3, 4, 3, 18, 2),
(22, 'Overcharged for shipping', 'Attention', 2, 6, 4, 19, 11),
(23, 'Bug in search function', 'Pending', 3, 1, 1, NULL, 9),
(24, 'Payment processing delay', 'Completed', 4, 3, 5, NULL, 4),
(25, 'Unhelpful support agent', 'Attention', 2, 9, 3, NULL, 7),
(26, 'Seller cancelled order last minute', 'Completed', 3, 12, 2, 20, 10),
(27, 'Return request ignored', 'Pending', 2, 14, 3, 21, 8),
(28, 'Live chat support was great', 'Completed', 5, 7, 1, NULL, 6),
(29, 'App freezes on login', 'Attention', 1, 2, 1, NULL, 3),
(30, 'Seller provided extra item as a gift', 'Completed', 5, 11, 2, 22, 1),
(31, 'App crashes when opening notifications', 'Pending', 2, 5, 1, NULL, NULL),
(32, 'Unable to upload images for listings', 'Attention', 3, 12, 1, NULL, 3),
(33, 'App freezes during checkout process', 'Pending', 1, 7, 1, NULL, NULL),
(34, 'Login screen not loading', 'Completed', 4, 9, 1, NULL, 6),
(35, 'Push notifications not working', 'Attention', 2, 15, 1, NULL, NULL),
(36, 'App crashes when searching for items', 'Pending', 1, 3, 1, NULL, NULL),
(37, 'Profile picture upload fails', 'Completed', 3, 10, 1, NULL, 7),
(38, 'App logs out randomly', 'Attention', 2, 8, 1, NULL, NULL),
(39, 'Search results not displaying correctly', 'Pending', 1, 14, 1, NULL, NULL),
(40, 'App crashes when switching tabs', 'Completed', 4, 6, 1, NULL, 9),
(41, 'Unable to reset password', 'Attention', 2, 11, 1, NULL, NULL),
(42, 'App freezes on startup', 'Pending', 1, 2, 1, NULL, NULL),
(43, 'Notifications not showing up', 'Completed', 3, 13, 1, NULL, 4),
(44, 'App crashes when viewing messages', 'Attention', 2, 4, 1, NULL, NULL),
(45, 'Unable to update app to latest version', 'Pending', 1, 1, 1, NULL, NULL),
(46, 'App crashes when adding items to cart', 'Completed', 4, 5, 1, NULL, 10),
(47, 'App freezes during payment process', 'Attention', 2, 12, 1, NULL, NULL),
(48, 'App crashes when opening profile', 'Pending', 1, 7, 1, NULL, NULL),
(49, 'Unable to delete account', 'Completed', 3, 9, 1, NULL, 5),
```

(50, 'App crashes when viewing order history', 'Attention', 2, 15, 1, NULL, NULL),
(51, 'App freezes when scrolling through listings', 'Pending', 1, 3, 1, NULL, NULL),
(52, 'App crashes when trying to contact seller', 'Completed', 4, 10, 1, NULL, 8),
(53, 'App freezes when applying filters', 'Attention', 2, 8, 1, NULL, NULL),
(54, 'App crashes when viewing reviews', 'Pending', 1, 14, 1, NULL, NULL),
(55, 'App freezes when editing profile', 'Completed', 3, 6, 1, NULL, 2),
(56, 'App crashes when opening notifications', 'Completed', 4, 16, 1, NULL, 3),
(57, 'Unable to upload images for listings', 'Completed', 3, 17, 1, NULL, 3),
(58, 'App freezes during checkout process', 'Completed', 1, 18, 1, NULL, 3),
(59, 'Login screen not loading', 'Completed', 1, 19, 1, NULL, 3),
(60, 'Push notifications not working', 'Completed', 2, 20, 1, NULL, 3),
(61, 'App crashes when searching for items', 'Completed', 3, 21, 1, NULL, 3),
(62, 'Profile picture upload fails', 'Completed', 4, 22, 1, NULL, 3),
(63, 'App logs out randomly', 'Completed', 5, 23, 1, NULL, 3),
(64, 'Search results not displaying correctly', 'Completed', 4, 24, 1, NULL, 3),
(65, 'App crashes when switching tabs', 'Completed', 3, 25, 1, NULL, 3),
(66, 'Unable to reset password', 'Completed', 4, 26, 1, NULL, 3),
(67, 'App freezes on startup', 'Completed', 5, 27, 1, NULL, 3),
(68, 'Notifications not showing up', 'Completed', 4, 28, 1, NULL, 3),
(69, 'App crashes when viewing messages', 'Completed', 3, 29, 1, NULL, 14),
(70, 'Unable to reset password', 'Pending', 4, 30, 1, NULL, 27),
(71, 'Account suspension issue', 'Completed', 5, 31, 1, NULL, 30),
(72, 'App freezes during payment process', 'Completed', 4, 32, 4, NULL, 26),
(73, 'App crashes when opening profile', 'Completed', 3, 33, 1, NULL, 27),
(74, 'Unable to delete account', 'Completed', 4, 34, 1, NULL, 30),
(75, 'App crashes when viewing order history', 'Completed', 5, 35, 1, NULL, 17),
(76, 'App freezes when scrolling through listings', 'Pending', 4, 36, 1, NULL, 15),
(77, 'App crashes when trying to contact seller', 'Completed', 3, 37, 1, NULL, 16),
(78, 'App freezes when applying filters', 'Completed', 4, 38, 1, NULL, 14),
(79, 'App crashes when viewing reviews', 'Pending', 5, 39, 1, NULL, 22),
(80, 'App freezes when editing profile', 'Pending', 4, 40, 1, NULL, 25);
GO

```
/*************************************************************************
  20) REVIEW
**************************************************************************/
INSERT INTO dbo.Review
(ReviewID, MemberType, ReviewDate, ItemRank, DeliveryRank,
CommunicationRank, Comment, OfferID)
VALUES
(1, 'Buyer', '2025-01-18', '5', '4', '5', 'Great seller, item as described!', 3),
(2, 'Buyer', '2025-01-22', '4', '4', '3', 'Reasonably fast shipping.', 5),
(3, 'Buyer', '2025-01-16', '5', '5', '5', 'Smooth transaction, recommended seller!', 10),
(4, 'Buyer', '2025-01-22', '5', '5', '5', 'Helmet was brand new condition, thanks!', 13),
(5, 'Buyer', '2025-01-14', '4', '4', '4', 'Good deal, product as described.', 19),
(6, 'Buyer', '2025-01-20', '4', '4', '4', 'Fast shipping and well-packed.', 22),
(7, 'Buyer', '2025-01-25', '5', '5', '5', 'Would buy again!', 26),
(8, 'Buyer', '2025-01-26', '4', '5', '5', 'Perfect packaging, fast delivery.', 29),
(9, 'Buyer', '2025-01-27', '5', '5', '5', 'Highly recommend!', 32),
(10, 'Buyer', '2025-01-18', '3', '4', '3', 'Expected better quality.', 36),
(11, 'Buyer', '2025-01-20', '4', '5', '5', 'Quick response from seller.', 39),
(12, 'Buyer', '2025-01-22', '5', '5', '5', 'A pleasure to deal with.', 42),
(13, 'Buyer', '2025-01-25', '3', '4', '3', 'Decent experience.', 46);
GO


/*************************************************************************
  21) BUMPORDER
**************************************************************************/
INSERT INTO dbo.BumpOrder (BumpOrderID, PurchaseDate, SellerID, BumpID,
ListingID)
VALUES
(1, '2025-01-15', 3, 1, 1),
(2, '2025-01-16', 4, 2, 3),
(3, '2025-01-17', 5, 5, 5),
(4, '2025-01-18', 6, 3, 7),
(5, '2025-01-19', 7, 4, 9),
(6, '2025-01-20', 8, 1, 10),
(7, '2025-01-21', 9, 2, 12),
(8, '2025-01-22', 10, 3, 14),
(9, '2025-01-23', 11, 4, 16),
(10, '2025-01-24', 12, 5, 18),
(11, '2025-01-25', 13, 1, 21),
(12, '2025-01-26', 14, 2, 22),
(13, '2025-01-27', 15, 3, 24),
(14, '2025-01-28', 28, 4, 26),
(15, '2025-01-29', 45, 5, 28),
(16, '2025-01-30', 46, 1, 29),
(17, '2025-01-31', 15, 2, 30),
(18, '2025-02-01', 3, 2, 32),
(19, '2025-02-02', 7, 2, 33),
(20, '2025-02-03', 34, 1, 35);
GO
```

3. Content of all the tables

-- 1) Award SELECT * FROM dbo.Award;

	AwardID	AwardName	AwardAmt
1	1	Team of the Quarter	1500.00
2	2	Excellence in Support	1000.00
3	3	Top Innovator	2000.00
4	4	Outstanding Efficiency	800.00
5	5	Best Collaboration	1200.00
6	6	Best Customer Service	1000.00
7	7	Top Sales Team	2000.00
8	8	Innovation Award	1500.00
9	9	Employee of the Month	500.00
10	10	Team Excellence Award	1200.00

-- 2) Member SELECT * FROM dbo.Member;

	MemberID	MemberName	MemberDOB	MemberEmail	MemberMobile	DateJoined	City
1	1	John Doe	1990-05-15 00:00:00	john.doe@email.com	91234567	2024-11-01 00:00:00	Singapore
2	2	Jane Smith	1992-08-22 00:00:00	jane.smith@email.com	92345678	2024-11-02 00:00:00	Singapore
3	3	Bob Wilson	1988-03-30 00:00:00	bob.wilson@email.com	93456789	2024-11-03 00:00:00	Singapore
4	4	Alice Brown	1995-11-12 00:00:00	alice.brown@email.com	94567890	2024-11-04 00:00:00	Singapore
5	5	Charlie Chen	1993-07-25 00:00:00	charlie.chen@email.com	95678901	2024-11-05 00:00:00	Singapore
6	6	David Lee	1987-09-18 00:00:00	david.lee@email.com	96789012	2024-11-06 00:00:00	Singapore
7	7	Emma Tan	1991-04-05 00:00:00	emma.tan@email.com	97890123	2024-11-07 00:00:00	Singapore
8	8	Franklin Lim	1994-06-21 00:00:00	franklin.lim@email.com	98901234	2024-11-08 00:00:00	Singapore
9	9	Grace Wong	1989-12-10 00:00:00	grace.wong@email.com	99012345	2024-11-09 00:00:00	Singapore
10	10	Henry Goh	1996-02-28 00:00:00	henry.goh@email.com	90123456	2024-11-10 00:00:00	Singapore
11	11	Isabelle Chua	1990-07-15 00:00:00	isabelle.chua@email.com	91234568	2024-11-11 00:00:00	Singapore
12	12	Jacky Teo	1993-03-20 00:00:00	jacky.teo@email.com	92345679	2024-11-12 00:00:00	Singapore
13	13	Kelly Ho	1985-11-08 00:00:00	kelly.ho@email.com	93456780	2024-11-13 00:00:00	Singapore
14	14	Leo Kwan	1997-05-30 00:00:00	leo.kwan@email.com	94567891	2024-11-14 00:00:00	Singapore
15	15	Mandy Seah	1992-09-12 00:00:00	mandy.seah@email.com	95678902	2024-11-15 00:00:00	Singapore
16	16	Nathaniel Low	1994-12-25 00:00:00	nathaniel.low@email.com	96789013	2024-11-16 00:00:00	Singapore
17	17	Olivia Tan	1991-06-17 00:00:00	olivia.tan@email.com	97890124	2024-11-17 00:00:00	Singapore
18	18	Pauline Ng	1988-08-29 00:00:00	pauline.ng@email.com	98901235	2024-11-18 00:00:00	Singapore
19	19	Quincy Yap	1995-10-03 00:00:00	quincy.yap@email.com	99012346	2024-11-19 00:00:00	Singapore
20	20	Rachel Foo	1990-01-22 00:00:00	rachel.foo@email.com	90123457	2024-11-20 00:00:00	Singapore
21	21	Samuel Tan	1986-04-11 00:00:00	samuel.tan@email.com	91234569	2024-11-21 00:00:00	Singapore
22	22	Tiffany Toh	1993-07-05 00:00:00	tiffany.toh@email.com	92345680	2024-11-22 00:00:00	Singapore
23	23	Ulysses Koh	1998-02-14 00:00:00	ulysses.koh@email.com	93456781	2024-11-23 00:00:00	Singapore
24	24	Vanessa Choo	1991-05-09 00:00:00	vanessa.choo@email.com	94567892	2024-11-24 00:00:00	Singapore
25	25	William Pang	1989-09-26 00:00:00	william.pang@email.com	95678903	2024-11-25 00:00:00	Singapore
26	26	Xavier Sim	1994-11-18 00:00:00	xavier.sim@email.com	96789014	2024-11-26 00:00:00	Singapore
27	27	Yvonne Ng	1992-06-30 00:00:00	yvonne.ng@email.com	97890125	2024-11-27 00:00:00	Singapore
28	28	Zachary Tan	1990-03-07 00:00:00	zachary.tan@email.com	98901236	2024-11-28 00:00:00	Singapore
29	29	Angela Lim	1987-10-21 00:00:00	angela.lim@email.com	99012347	2024-11-29 00:00:00	Singapore
30	30	Benjamin Ong	1996-12-15 00:00:00	benjamin.ong@email.com	90123458	2024-11-30 00:00:00	Singapore
31	31	Catherine Lee	1988-07-03 00:00:00	catherine.lee@email.com	91234570	2024-12-01 00:00:00	Singapore
32	32	Daniel Goh	1992-02-19 00:00:00	daniel.goh@email.com	92345681	2024-12-02 00:00:00	Singapore
33	33	Elaine Ho	1985-05-14 00:00:00	elaine.ho@email.com	93456782	2024-12-03 00:00:00	Singapore
34	34	Felix Tan	1993-08-08 00:00:00	felix.tan@email.com	94567893	2024-12-04 00:00:00	Singapore
35	35	Gina Wong	1990-10-12 00:00:00	gina.wong@email.com	95678904	2024-12-05 00:00:00	Singapore
36	36	Harrison Lim	1994-01-27 00:00:00	harrison.lim@email.com	96789015	2024-12-06 00:00:00	Singapore

-- 3) Follower SELECT * FROM dbo.Follower;

	MemberID	FollowerID	DateStarted
1	1	2	2025-01-16
2	1	13	2025-01-22
3	2	5	2025-01-13
4	2	12	2025-01-21
5	3	1	2024-12-22
6	3	2	2024-12-22
7	3	4	2024-12-29
8	3	10	2025-01-22
9	3	20	2025-01-17
10	4	9	2025-01-17
11	5	3	2024-12-23
12	5	6	2025-01-16
13	6	3	2024-12-25
14	6	4	2025-01-19
15	6	7	2024-12-29
16	7	4	2024-12-25
17	7	8	2024-12-30
18	7	9	2025-01-21
19	8	5	2024-12-26
20	8	14	2025-01-18
21	9	4	2025-01-21
22	9	5	2024-12-27
23	9	7	2025-01-16
24	10	6	2024-12-28
25	10	11	2025-01-05
26	10	25	2025-01-21
27	11	20	2025-01-12

-- 4) Bump SELECT * FROM dbo.Bump;

	BumpID	BumpDesc	BumpPrice
1	1	Single Bump (24h)	1.99
2	2	Daily Bump - 3 Days	4.99
3	3	Daily Bump - 7 Days	9.99
4	4	Premium Bump 14 Days	19.99
5	5	Featured Listing	29.99
6	6	Weekly Bump	14.99
7	7	Featured Listing - 3 Days	24.99
8	8	Premium Bump - 30 Days	49.99
9	9	Flash Sale Bump	9.99
10	10	Seasonal Bump	99.99

-- 5) Buyer SELECT * FROM dbo.Buyer;

	BuyerID
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

-- 6) Seller SELECT * FROM dbo.Seller;

	SellerID
1	1
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
12	13
13	14
14	15
15	21
16	22

-- 7) Team SELECT * FROM dbo.Team;

	TeamID	TeamName	TeamLeaderID
1	1	Customer Support	1
2	2	Maintenance Team	2
3	3	Quality Assurance	3
4	4	Logistics & Shipping	4
5	5	Extra Team #5	5
6	6	Extra Team #6	6
7	7	Extra Team #7	7
8	8	Extra Team #8	8
9	9	Extra Team #9	9
10	10	Extra Team #10	10

-- 8) Staff SELECT * FROM dbo.Staff;

	StaffID	StaffName	StaffMobile	StaffDateJoined	TeamID
1	1	Alice Tan	98760001	2023-02-01	1
2	2	Cindy Wang	98760002	2023-04-05	2
3	3	Elaine Ng	98760003	2023-05-11	3
4	4	George Lim	98760004	2023-07-15	4
5	5	John Foo	98760005	2023-08-01	5
6	6	Mary Koh	98760006	2023-09-10	6
7	7	Nathan Lee	98760007	2023-10-15	7
8	8	Olivia Tan	98760008	2023-11-20	8
9	9	Brian Chia	98760009	2023-02-12	9
10	10	Sara Wong	98760010	2023-03-22	10
11	11	Kevin Goh	98760011	2023-04-30	1
12	12	Darren Foo	98760012	2023-05-14	2
13	13	Lydia Lim	98760013	2023-06-05	2
14	14	Tommy Ong	98760014	2023-07-11	2
15	15	Hannah Cheng	98760015	2023-08-22	3
16	16	Xavier Ng	98760016	2023-09-01	3
17	17	Victoria T	98760017	2023-10-07	3

-- 9) Win SELECT * FROM dbo.Win;

	AwardID	TeamID	DateAwarded
1	1	1	2024-02-01
2	1	2	2024-06-01
3	2	1	2024-03-05
4	2	4	2024-05-10
5	3	2	2024-03-10
6	4	3	2024-04-15
7	5	3	2024-04-20
8	6	1	2024-07-01
9	7	2	2024-08-15
10	8	3	2024-09-10
11	9	4	2024-10-05
12	10	5	2024-11-20

-- 10) Category SELECT * FROM dbo.Category;

	CatID	CatDesc
1	1	Electronics
2	2	Fashion
3	3	Home & Living
4	4	Books & Hobbies
5	5	Sports & Outdoors
6	6	Beauty & Health
7	7	Automotive
8	8	Groceries
9	9	Pet Supplies
10	10	Toys & Games

-- 11) SubCategory SELECT * FROM dbo.SubCategory;

	SubCatID	SubCatDesc	CatID
1	101	Smartphones	1
2	102	Laptops	1
3	103	Wearable Tech	1
4	104	Men's Clothing	2
5	105	Women's Clothing	2
6	106	Cosplay & Costumes	2
7	107	Furniture	3
8	108	Kitchen Appliances	3
9	109	Lighting & Decor	3
10	110	Fiction Books	4
11	111	Board Games	4
12	112	Gym & Fitness Equipment	5
13	113	Camping & Hiking Gear	5
14	114	Hair Care Products	6
15	115	Vitamins & Supplements	6
16	116	Car Accessories	7
17	117	Motorcycle Equipment	7

-- 12) Listing SELECT * FROM dbo.Listing;

	ListingID	ListDesc	ListDateTime	ListPrice	ListStatus	SellerID	SubCatID
1	1	Used iPhone X - Good Condition	2025-01-12 00:00:00	380.00	Available	3	101
2	2	Gaming Laptop (Acer Predator)	2025-01-14 00:00:00	1200.00	Available	3	102
3	3	Handmade Wooden Table	2025-01-16 00:00:00	200.00	Available	4	107
4	4	Board Game: Catan	2025-01-18 00:00:00	45.00	Sold	4	111
5	5	Tent & Camping Set	2025-01-20 00:00:00	150.00	Available	5	113
6	6	Car Dash Cam - Full HD	2024-11-10 00:00:00	99.00	Inactive	6	116
7	7	Motorcycle Helmet	2025-01-22 00:00:00	80.00	Sold	6	117
8	8	Vitamin C Supplements	2025-01-23 00:00:00	25.00	Available	7	115
9	9	Pet Dog Kibble 10kg	2025-01-24 00:00:00	35.00	Available	7	119
10	10	Dumbbells 5kg Pair	2025-01-25 00:00:00	40.00	Available	5	112
11	11	Wireless Earbuds - Noise Cancelling	2024-11-05 00:00:00	85.00	Inactive	8	101
12	12	Gaming Chair - Ergonomic Design	2025-01-15 00:00:00	250.00	Available	8	102
13	13	Vintage Wooden Bookshelf	2025-01-17 00:00:00	180.00	Sold	9	107
14	14	Chess Set - Mahogany Edition	2025-01-19 00:00:00	60.00	Available	9	111
15	15	Hiking Backpack 50L	2025-01-21 00:00:00	90.00	Available	10	113
16	16	Wireless Security Camera	2025-01-23 00:00:00	120.00	Available	11	116

-- 13) BumpOrder SELECT * FROM dbo.BumpOrder;

	BumpOrderID	PurchaseDate	SellerID	BumpID	ListingID
1	1	2025-01-15	3	1	1
2	2	2025-01-16	4	2	3
3	3	2025-01-17	5	5	5
4	4	2025-01-18	6	3	7
5	5	2025-01-19	7	4	9
6	6	2025-01-20	8	1	10
7	7	2025-01-21	9	2	12
8	8	2025-01-22	10	3	14
9	9	2025-01-23	11	4	16
10	10	2025-01-24	12	5	18
11	11	2025-01-25	13	1	21
12	12	2025-01-26	14	2	22
13	13	2025-01-27	15	3	24
14	14	2025-01-28	28	4	26
15	15	2025-01-29	45	5	28
16	16	2025-01-30	46	1	29

-- 14) ListingPhoto SELECT * FROM dbo.ListingPhoto;

	ListingID	Photo
1	1	Pic1
2	1	Pic2
3	2	Pic1
4	3	Pic1
5	3	Pic2
6	4	Pic1
7	5	Pic1
8	6	Pic1
9	6	Pic2
10	7	Pic1
11	8	Pic1
12	9	Pic1
13	10	Pic1
14	11	Pic1
15	11	Pic2
16	12	Pic1

-- 15) Chat SELECT * FROM dbo.Chat;

	ChatID	BuyerID	ListingID
1	1	5	1
2	2	6	2
3	3	7	3
4	4	8	4
5	5	9	5
6	6	5	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10

-- 16) ChatMsg SELECT * FROM dbo.ChatMsg;

	ChatID	MsgSN	MsgDateTime	Originator	Msg
1	1	1	2025-01-18 09:00:00.000	Buyer	Is the iPhone still available?
2	2	1	2025-01-19 10:00:00.000	Buyer	Does the laptop come with warranty?
3	3	1	2025-01-19 14:20:00.000	Buyer	Hello, can I pick up this weekend?
4	4	1	2025-01-20 11:00:00.000	Buyer	Is Catan game complete set?
5	5	1	2025-01-20 12:30:00.000	Buyer	Interested in the camping set.
6	6	1	2025-01-21 09:00:00.000	Buyer	Regarding the dash cam, any discount?
7	7	1	2025-01-18 10:00:00.000	Buyer	Is this still available?
8	8	1	2025-01-19 11:00:00.000	Buyer	Can you lower the price?
9	9	1	2025-01-20 12:00:00.000	Buyer	When can I pick up?
10	10	1	2025-01-21 13:00:00.000	Buyer	Is this item new?
11	1	2	2025-01-18 09:05:00.000	Seller	Yes, it is.
12	2	2	2025-01-19 10:15:00.000	Seller	3 months left on it.
13	3	2	2025-01-19 14:30:00.000	Seller	Yes, that works.
14	5	2	2025-01-20 12:35:00.000	Seller	Still available.
15	6	2	2025-01-21 09:10:00.000	Seller	Sure, can do $90.
16	7	2	2025-01-18 10:05:00.000	Seller	Yes, it is.

-- 17) Likes SELECT * FROM dbo.Likes;

	BuyerID	ListingID	DateLiked
1	1	1	2025-01-24
2	1	16	2025-01-24
3	1	31	2025-01-12
4	2	1	2025-01-13
5	2	31	2025-01-12
6	3	32	2025-01-14
7	4	32	2025-01-14
8	5	33	2025-01-16
9	6	33	2025-01-16
10	7	34	2025-01-18
11	8	34	2025-01-18
12	9	35	2025-01-20
13	10	1	2025-01-12
14	10	35	2025-01-20
15	11	1	2025-01-12
16	11	44	2025-01-20

-- 18) Offer SELECT * FROM dbo.Offer;

	OfferID	OfferPrice	OfferStatus	OfferDate	BuyerID	ListingID
1	1	350.00	Pending	2025-01-14	5	1
2	2	1100.00	Submitted	2025-01-16	6	2
3	3	100.00	Completed	2025-01-18	7	3
4	4	40.00	Rejected	2025-01-20	8	4
5	5	140.00	Completed	2025-01-22	9	5
6	6	90.00	Accepted	2024-11-12	10	6
7	7	25.00	Pending	2025-01-25	11	8
8	8	30.00	Submitted	2025-01-26	12	9
9	9	310.00	Pending	2025-01-27	13	10
10	10	400.00	Completed	2025-01-16	14	2
11	11	150.00	Rejected	2025-01-18	15	3
12	12	275.00	Pending	2025-01-20	16	4
13	13	500.00	Completed	2025-01-22	17	5
14	14	80.00	Accepted	2024-11-12	18	6
15	15	60.00	Pending	2025-01-24	19	7
16	16	250.00	Rejected	2025-01-25	20	8

-- 19) Review SELECT * FROM dbo.Review;

	ReviewID	ReviewDate	MemberType	ItemRank	DeliveryRank	CommunicationRank	Comment	OfferID
1	1	2025-01-18	Buyer	5	4	5	Great seller, item as described!	3
2	2	2025-01-22	Buyer	4	4	3	Reasonably fast shipping.	5
3	3	2025-01-16	Buyer	5	5	5	Smooth transaction, recommended seller!	10
4	4	2025-01-22	Buyer	5	5	5	Helmet was brand new condition, thanks!	13
5	5	2025-01-14	Buyer	4	4	4	Good deal, product as described.	19
6	6	2025-01-20	Buyer	4	4	4	Fast shipping and well-packed.	22
7	7	2025-01-25	Buyer	5	5	5	Would buy again!	26
8	8	2025-01-26	Buyer	4	5	5	Perfect packaging, fast delivery.	29
9	9	2025-01-27	Buyer	5	5	5	Highly recommend!	32
10	10	2025-01-18	Buyer	3	4	3	Expected better quality.	36
11	11	2025-01-20	Buyer	4	5	5	Quick response from seller.	39
12	12	2025-01-22	Buyer	5	5	5	A pleasure to deal with.	42
13	13	2025-01-25	Buyer	3	4	3	Decent experience.	46

-- 20) FeedbkCat SELECT * FROM dbo.FeedbkCat;

	FbkCatID	FbkCatDesc
1	1	Technical Problem
2	2	User Complaint
3	3	Listing Issue
4	4	Payment Problem
5	5	General Inquiry
6	6	Account Issues
7	7	Listing Disputes
8	8	Shipping Problems
9	9	Refund Requests
10	10	App Feedback

-- 21) Feedback SELECT * FROM dbo.Feedback;

	FbkID	FbkDesc	FbkDateTime	FbkStatus	SatisfactionRank	FbkCatID	ByMemberID	OnMemberID	StaffID
1	1	App keeps crashing	2025-01-31 21:15:43.160	Pending	2	1	1	NULL	3
2	2	Seller was rude	2025-01-31 21:15:43.160	Completed	1	2	8	3	1
3	3	Missing product info	2025-01-31 21:15:43.160	Attention	3	3	7	5	NULL
4	4	Payment not working	2025-01-31 21:15:43.160	Pending	2	4	9	NULL	7
5	5	General question	2025-01-31 21:15:43.160	Completed	3	5	2	NULL	5
6	6	Item never arrived	2025-01-31 21:15:43.160	Completed	1	3	5	6	9
7	7	Listing images broken	2025-01-31 21:15:43.160	Attention	4	3	10	8	NULL
8	8	Staff was very helpful	2025-01-31 21:15:43.160	Completed	5	2	4	NULL	11
9	9	Refund request denied	2025-01-31 21:15:43.160	Pending	2	4	6	7	2
10	10	Incorrect item sent	2025-01-31 21:15:43.160	Completed	3	2	3	10	8
11	11	Delayed response from support	2025-01-31 21:15:43.160	Attention	2	1	12	NULL	6
12	12	Payment double charged	2025-01-31 21:15:43.160	Completed	4	5	14	NULL	9
13	13	Account suspension issue	2025-01-31 21:15:43.160	Pending	3	3	11	NULL	4
14	14	Item not as described	2025-01-31 21:15:43.160	Attention	2	2	7	12	1
15	15	Confusing UI	2025-01-31 21:15:43.160	Completed	4	1	5	NULL	10
16	16	Delayed shipment	2025-01-31 21:15:43.160	Pending	3	4	9	15	3

4) SQL Queries by Each Teammates

Team Member 1: Ho Wei Xian

```
/*************************************************************************
  1) MOST FOLLOWED MEMBERS
*************************************************************************/

SELECT  TOP  5  m.MemberID,  m.MemberName,  COUNT(f.FollowerID)  AS
FollowerCount
FROM dbo.Member m  -- Explicit schema reference
JOIN dbo.Follower f ON m.MemberID = f.MemberID
GROUP BY m.MemberID, m.MemberName
ORDER BY FollowerCount DESC;
```

	MemberID	MemberName	FollowerCount
1	20	Rachel Foo	8
2	3	Bob Wilson	5
3	6	David Lee	3
4	7	Emma Tan	3
5	9	Grace Wong	3

```
/**************************************************************************
  2) LISTINGS WITH HIGH ENGAGEMENT
**************************************************************************/
SELECT
    l.ListingID,
    l.ListDesc,
    l.SellerID,
    DATEDIFF(DAY, l.ListDateTime, GETDATE()) AS ListDays,
    COUNT(DISTINCT lp.Photo) AS PhotoCount,
    COUNT(DISTINCT li.BuyerID) AS LikeCount,
    (SELECT COUNT(lp2.Photo)
     FROM dbo.Listing l2
     JOIN dbo.ListingPhoto lp2 ON l2.ListingID = lp2.ListingID
     WHERE l2.SellerID = l.SellerID) AS TotalPhotosBySeller
FROM dbo.Listing l
LEFT JOIN dbo.ListingPhoto lp ON l.ListingID = lp.ListingID
LEFT JOIN dbo.Likes li ON l.ListingID = li.ListingID
WHERE l.ListStatus = 'Available'
GROUP BY l.ListingID, l.ListDesc, l.SellerID, l.ListDateTime
HAVING COUNT(DISTINCT lp.Photo) >= 2
ORDER BY LikeCount DESC;
```

	ListingID	ListDesc	SellerID	ListDays	PhotoCount	LikeCount	TotalPhotosBySeller
1	1	Used iPhone X - Good Condition	3	21	2	7	4
2	16	Wireless Security Camera	11	10	2	4	3
3	31	Samsung Galaxy S22 - Mint Condition	21	21	2	2	2
4	3	Handmade Wooden Table	4	17	2	2	4
5	12	Gaming Chair - Ergonomic Design	8	18	2	2	5
6	15	Hiking Backpack 50L	10	12	2	2	3

```
/**************************************************************************
  3) ACTIVE SELLERS IN SINGAPORE
***************************************************************************/

SELECT s.SellerID,
     m.MemberName,
     COUNT(l.ListingID) AS ActiveListings,
     AVG(DATEDIFF(DAY, l.ListDateTime, GETDATE())) AS AvgListDays
FROM dbo.Seller s
JOIN dbo.Member m ON s.SellerID = m.MemberID
JOIN dbo.Listing l ON s.SellerID = l.SellerID
WHERE m.City = 'Singapore' AND l.ListStatus = 'Available'
GROUP BY s.SellerID, m.MemberName
ORDER BY ActiveListings DESC;
```

	SellerID	MemberName	ActiveListings	AvgListDays
1	3	Bob Wilson	3	17
2	7	Emma Tan	3	9
3	8	Franklin Lim	2	13
4	5	Charlie Chen	2	10
5	12	Jacky Teo	2	22
6	13	Kelly Ho	2	19
7	45	Queenie Tan	2	13
8	46	Raphael Sim	1	8
9	14	Leo Kwan	1	15
10	15	Mandy Seah	1	13
11	21	Samuel Tan	1	21
12	22	Tiffany Toh	1	19
13	25	William Pang	1	15
14	26	Xavier Sim	1	13
15	28	Zachary Tan	1	11
16	32	Daniel Goh	1	10
17	33	Elaine Ho	1	9
18	34	Felix Tan	1	8
19	6	David Lee	1	10
20	4	Alice Brown	1	17
21	9	Grace Wong	1	14
22	10	Henry Goh	1	12
23	11	Isabelle Chua	1	10

Team Member 2 : Heng Jue Wei Tevin

```
/*****************************************************************************
   1) LOW-RATED FEEDBACK
*****************************************************************************/
SELECT f.FbkID, f.FbkDesc, fc.FbkCatDesc, f.SatisfactionRank
FROM dbo.Feedback f
JOIN dbo.FeedbkCat fc ON f.FbkCatID = fc.FbkCatID
WHERE f.SatisfactionRank <= 2;
```

	FbkID	FbkDesc	FbkCatDesc	SatisfactionRank
1	1	App keeps crashing	Technical Problem	2
2	2	Seller was rude	User Complaint	1
3	4	Payment not working	Payment Problem	2
4	6	Item never arrived	Listing Issue	1
5	9	Refund request denied	Payment Problem	2
6	11	Delayed response from support	Technical Problem	2
7	14	Item not as described	User Complaint	2
8	18	Unresponsive seller	Listing Issue	2
9	20	Support ticket unanswered	Payment Problem	2
10	22	Overcharged for shipping	Payment Problem	2
11	25	Unhelpful support agent	Listing Issue	2
12	27	Return request ignored	Listing Issue	2
13	29	App freezes on login	Technical Problem	1
14	31	App crashes when opening notifications	Technical Problem	2
15	33	App freezes during checkout process	Technical Problem	1
16	35	Push notifications not working	Technical Problem	2

```
/***********************************************************************
  2) FEEDBACK HANDLED BY STAFF
***********************************************************************/
SELECT s.StaffID, s.StaffName, COUNT(f.FbkID) AS FeedbackResolved
FROM dbo.Staff s
JOIN dbo.Feedback f ON s.StaffID = f.StaffID
WHERE f.FbkStatus = 'Completed'
GROUP BY s.StaffID, s.StaffName
ORDER BY COUNT(f.FbkID) DESC;
```

	StaffID	StaffName	FeedbackResolved
1	3	Elaine Ng	13
2	9	Brian Chia	3
3	10	Sara Wong	3
4	4	George Lim	2
5	5	John Foo	2
6	6	Mary Koh	2
7	7	Nathan Lee	2
8	8	Olivia Tan	2
9	14	Tommy Ong	2
10	1	Alice Tan	2
11	2	Cindy Wang	2
12	30	Julian Koh	2
13	16	Xavier Ng	1
14	17	Victoria Tan	1
15	26	David Ong	1
16	27	Samantha Ng	1

```
/***********************************************************************
  3) PENDING FEEDBACK BY CATEGORY
***********************************************************************/

SELECT fc.FbkCatDesc, COUNT(f.FbkID) AS PendingCount
FROM dbo.Feedback f
JOIN dbo.FeedbkCat fc ON f.FbkCatID = fc.FbkCatID
WHERE f.FbkStatus = 'Pending'
GROUP BY fc.FbkCatDesc
ORDER BY COUNT(f.FbkID) DESC;
```

	FbkCatDesc	PendingCount
1	Technical Problem	15
2	Payment Problem	4
3	Listing Issue	2

Team Member 3: Tan Yu Xuan Eason

```
/**************************************************************************
   1) TEAMS WITH AWARDS
**************************************************************************/

SELECT t.TeamID,
    t.TeamName,
    COUNT(w.AwardID) AS TotalAwards,
    (SELECT TOP 1 a.AwardName
     FROM Win w2
     JOIN Award a ON w2.AwardID = a.AwardID
     WHERE w2.TeamID = t.TeamID
     ORDER BY w2.DateAwarded DESC) AS MostRecentAward
FROM Team t
JOIN Win w ON t.TeamID = w.TeamID
GROUP BY t.TeamID, t.TeamName
ORDER BY TotalAwards DESC;
```

	TeamID	TeamName	TotalAwards	MostRecentAward
1	1	Customer Support	2	Excellence in Support
2	2	Maintenance Team	2	Team of the Quarter
3	3	Quality Assurance	2	Best Collaboration
4	4	Logistics & Shipping	1	Excellence in Support

```
/**************************************************************************
 2)  LONGEST-SERVING STAFF MEMBER PER TEAM
**************************************************************************/

SELECT
    t.TeamID,
    t.TeamName,
    s.StaffName AS LongestServingStaff,
    s.StaffDateJoined AS EarliestJoinDate
FROM Team AS t
JOIN Staff AS s
    ON s.TeamID = t.TeamID
WHERE s.StaffDateJoined =
(
    SELECT MIN(s2.StaffDateJoined)
    FROM Staff AS s2
    WHERE s2.TeamID = t.TeamID
)
ORDER BY t.TeamID;
```

	TeamID	TeamName	LongestServingStaff	EarliestJoinDate
1	1	Customer Support	Alice Tan	2023-02-01
2	2	Maintenance Team	Cindy Wang	2023-04-05
3	3	Quality Assurance	Elaine Ng	2023-05-11
4	4	Logistics & Shipping	George Lim	2023-07-15
5	5	Extra Team #5	John Foo	2023-08-01
6	6	Extra Team #6	Mary Koh	2023-09-10
7	7	Extra Team #7	Nathan Lee	2023-10-15
8	8	Extra Team #8	Olivia Tan	2023-11-20

```
/***************************************************************************
   3) TEAM LEADER DETAILS WITH TEAM SIZE
***************************************************************************/

SELECT
    t.TeamID,
    t.TeamName,
    s.StaffName AS TeamLeader,
    s.StaffDateJoined AS LeaderJoinDate,
    COUNT(st.StaffID) AS TeamSize
FROM Team t
JOIN Staff s ON t.TeamLeaderID = s.StaffID
LEFT JOIN Staff st ON t.TeamID = st.TeamID
GROUP BY t.TeamID, t.TeamName, s.StaffName, s.StaffDateJoined
ORDER BY TeamSize DESC;
```

	TeamID	TeamName	TeamLeader	LeaderJoinDate	TeamSize
1	1	Customer Support	Alice Tan	2023-02-01	4
2	2	Maintenance Team	Cindy Wang	2023-04-05	4
3	3	Quality Assurance	Elaine Ng	2023-05-11	4
4	4	Logistics & Shippi...	George Lim	2023-07-15	4
5	5	Extra Team #5	John Foo	2023-08-01	4
6	6	Extra Team #6	Mary Koh	2023-09-10	4
7	7	Extra Team #7	Nathan Lee	2023-10-15	4
8	8	Extra Team #8	Olivia Tan	2023-11-20	2

Team Member 4 : Queh Ching Kai Javier

```
/**************************************************************************
1) AVERAGE OFFER VS LISTING PRICE WITH PERCENTAGE DIFFERENCE
**************************************************************************/
SELECT
    l.ListingID,
    l.ListDesc,
    l.ListPrice,
    AVG(o.OfferPrice) AS AvgOfferPrice,
    ROUND((AVG(o.OfferPrice) - l.ListPrice) / l.ListPrice * 100, 2) AS
PercentageDifference
FROM
    dbo.Listing l
JOIN
    dbo.Offer o ON l.ListingID = o.ListingID
GROUP BY
    l.ListingID, l.ListDesc, l.ListPrice
ORDER BY
    PercentageDifference DESC;
```

	ListingID	ListDesc	ListPrice	AvgOfferPrice	PercentageDifference
1	8	Vitamin C Supplements	25.00	235.00	840.00
2	4	Board Game: Catan	45.00	387.00	760.00
3	9	Pet Dog Kibble 10kg	35.00	276.25	689.28
4	10	Dumbbells 5kg Pair	40.00	178.75	346.87
5	6	Car Dash Cam - Full HD	99.00	191.00	92.92
6	7	Motorcycle Helmet	80.00	105.00	31.25
7	5	Tent & Camping Set	150.00	182.00	21.33
8	1	Used iPhone X - Good Condition	380.00	408.75	7.56
9	3	Handmade Wooden Table	200.00	209.00	4.50
10	2	Gaming Laptop (Acer Predator)	1200.00	552.00	-54.00

```
/*************************************************************************
2) COMPLETED OFFERS WITH REVIEWS AND SELLER INFORMATION
*************************************************************************/

SELECT
    o.OfferID,
    o.OfferPrice,
    r.ReviewID,
    r.ItemRank,
    r.Comment,
    s.SellerID,
    m.MemberName AS SellerName
FROM
    dbo.Offer o
JOIN
    dbo.Review r ON o.OfferID = r.OfferID
JOIN
    dbo.Listing l ON o.ListingID = l.ListingID
JOIN
    dbo.Seller s ON l.SellerID = s.SellerID
JOIN
    dbo.Member m ON s.SellerID = m.MemberID
WHERE
    o.OfferStatus = 'Completed'
ORDER BY
    r.ItemRank DESC;
```

	OfferID	OfferPrice	ReviewID	ItemRank	Comment	SellerID	SellerName
1	10	400.00	3	5	Smooth transaction, recommended seller!	3	Bob Wilson
2	13	500.00	4	5	Helmet was brand new condition, thanks!	5	Charlie Chen
3	3	100.00	1	5	Great seller, item as described!	4	Alice Brown
4	26	290.00	7	5	Would buy again!	7	Emma Tan
5	32	540.00	9	5	Highly recommend!	4	Alice Brown
6	42	560.00	12	5	A pleasure to deal with.	4	Alice Brown
7	39	460.00	11	4	Quick response from seller.	3	Bob Wilson
8	29	450.00	8	4	Perfect packaging, fast delivery.	3	Bob Wilson
9	5	140.00	2	4	Reasonably fast shipping.	5	Charlie Chen
10	19	375.00	5	4	Good deal, product as described.	3	Bob Wilson
11	22	520.00	6	4	Fast shipping and well-packed.	4	Alice Brown
12	46	310.00	13	3	Decent experience.	7	Emma Tan
13	36	300.00	10	3	Expected better quality.	7	Emma Tan

```
/*************************************************************************
 3)  OFFERS EXCEEDING LISTING PRICE WITH BUYER INFORMATION
**************************************************************************/

SELECT
    o.OfferID,
    o.OfferPrice,
    l.ListPrice,
    b.BuyerID,
    m.MemberName AS BuyerName,
    ROUND((o.OfferPrice    -    l.ListPrice)    /    l.ListPrice    *    100,    2)    AS
PercentageAboveListPrice
FROM
    dbo.Offer o
JOIN
    dbo.Listing l ON o.ListingID = l.ListingID
JOIN
    dbo.Buyer b ON o.BuyerID = b.BuyerID
JOIN
    dbo.Member m ON b.BuyerID = m.MemberID
WHERE
    o.OfferPrice > l.ListPrice
ORDER BY
    PercentageAboveListPrice DESC;
```

	OfferID	OfferPrice	ListPrice	BuyerID	BuyerName	PercentageAboveListPrice
1	42	560.00	45.00	46	Raphael Sim	1144.44
2	46	310.00	25.00	50	Victor Heng	1140.00
3	32	540.00	45.00	36	Harrison Lim	1100.00
4	36	300.00	25.00	40	Louis Pang	1100.00
5	26	290.00	25.00	30	Benjamin Ong	1060.00
6	22	520.00	45.00	26	Xavier Sim	1055.55
7	27	370.00	35.00	31	Catherine Lee	957.14
8	37	365.00	35.00	41	Melissa Yeo	942.85
9	16	250.00	25.00	20	Rachel Foo	900.00
10	17	340.00	35.00	21	Samuel Tan	871.42
11	9	310.00	40.00	13	Kelly Ho	675.00
12	12	275.00	45.00	16	Nathaniel Low	511.11
13	38	150.00	40.00	42	Nigel Chan	275.00
14	28	135.00	40.00	32	Daniel Goh	237.50
15	13	500.00	150.00	17	Olivia Tan	233.33
16	18	120.00	40.00	22	Tiffany Toh	200.00
17	44	270.00	99.00	48	Timothy Loh	172.72

Team Member 5: Jerremmy Lee Rasni

```
/***************************************************************************
  1) BUMP ORDERS BY SELLER
 ***************************************************************************/
SELECT s.SellerID, COUNT(bo.BumpOrderID) AS BumpOrderCount
FROM dbo.Seller s
JOIN dbo.BumpOrder bo ON s.SellerID = bo.SellerID
GROUP BY s.SellerID;
```

	SellerID	BumpOrderCount
1	3	2
2	4	1
3	5	1
4	6	1
5	7	2
6	8	1
7	9	1
8	10	1
9	11	1
10	12	1
11	13	1
12	14	1
13	15	2
14	28	1
15	34	1
16	45	1
17	46	1

```
/***************************************************************************
  2) MOST POPULAR BUMP TYPE
 ***************************************************************************/
SELECT b.BumpID, b.BumpDesc, COUNT(bo.BumpOrderID) AS PurchaseCount
FROM dbo.Bump b
JOIN dbo.BumpOrder bo ON b.BumpID = bo.BumpID
GROUP BY b.BumpID, b.BumpDesc
ORDER BY PurchaseCount DESC
OFFSET 0 ROWS FETCH NEXT 10 ROWS ONLY;
```

BumpID	BumpDesc	PurchaseCount
2	Daily Bump - 3 Days	6
1	Single Bump (24h)	5
5	Featured Listing	3
4	Premium Bump 14 Days	3
3	Daily Bump - 7 Days	3

```
/**************************************************************************
 3)  BUMP REVENUE BY MONTH
**************************************************************************/
SELECT  FORMAT(bo.PurchaseDate, 'yyyy-MM') AS Month, SUM(b.BumpPrice) AS
TotalRevenue
FROM dbo.BumpOrder bo
JOIN dbo.Bump b ON bo.BumpID = b.BumpID
GROUP BY FORMAT(bo.PurchaseDate, 'yyyy-MM');
```

Month	TotalRevenue
2025-01	207.83
2025-02	11.97