Shop Management System

PRODUCT_INFO	STOCK	CUSTOMER_INFO	STATUS	PURCHASE_LOG
ATTRIBUTES	**ATTRIBUTES**	**ATTRIBUTES**	**ATTRIBUTES**	**ATTRIBUTES**
ID (AUTO, VARCHAR2) NAME (VARCHAR2) PRODUCER (VARCHAR2) MRP (NUMBER) CURRENT_DISCOUNT (NUMBER) [0 – 100, PERCENT] DISCOUNT_UNTIL (DATE)	PID (AUTO, VARCHAR2) {PRODUCT_INFO.ID} MIN_MARGIN (NUMBER) CURRENT_STOCK (NUMBER)	ID (AUTO, VARCHAR2) NAME (VARCHAR2) ADDRESS (VARCHAR2) REGISTER_DATE (DATE) TOTAL_PURCHASE (NUMBER) STATUS (VARCHAR2) {STATUS.STATUS_NAME}	STATUS_NAME (VARCHAR2) <BRONZE, SILVER, GOLD, PLATINUM> DISCOUNT (NUMBER) [0 – 100, PERCENT]	CID (VARCHAR2) {CUSTOMER_INFO.ID} PID (VARCHAR2) {PRODUCT_INFO.ID} QUANTITY (NUMBER) PER_COST (NUMBER) TOTAL_COST (NUMBER) TOTAL_COST_W_MEM_DISCOUNT (NUMBER) PURCHASE_DATE (DATE)
PROCEDURES	**PROCEDURES**	**PROCEDURES**	**PROCEDURES**	**PROCEDURES**
ADD_PRODUCT (NAME, PRODUCER, MRP) [*Should add itself to the STOCK table, with MIN_MARGIN set to a default value = 10*] REMOVE_PRODUCT_BY_ID (PID) REMOVE_PRODUCT_BY_NAME_PRODUCER (NAME, PRODUCER) REMOVE_ALL_PRODUCT_BY_PRODUCER (PRODUCER) GET_PID (NAME, PRODUCER) GIVE_DISCOUNT (PID, VALUE) CHECK_DISCOUNT (PID) GIVE_DISCOUNT_BY_PRODUCER (PRODUCER, VALUE) GIVE_CONDITIONAL_DISCOUNT (MARGIN, BELOW, ABOVE, EQUAL, VALUE) GIVE_CONDITIONAL_DISCOUNT_BY_PRODUCER (PRODUCER, MARGIN, BELOW, ABOVE, EQUAL, VALUE)	RESTOCK (PID, AMOUNT) DECREMENT_STOCK (PID, AMOUNT) CHANGE_MIN_MARGIN (PID, VALUE)	ADD_CUSTOMER (NAME, ADDRESS) REMOVE_CUSTOMER (CID) CHANGE_ADDRESS (CID) SEARCH_BY_NAME (NAME) SEARCH_BY_ADDRESS (ADDRESS) SEARCH_BY_STATUS (STATUS)		MAKE_PURCHASE(CID, PID, QUANTITY) [*This will auto insert into the table, set PURCHASE_DATE to current date and also calculate PER_COST = MRP * DISCOUNT, TOTAL_COST = PER_COST * QUANTITY and TOTAL_COST_W_MEM_DISCOUNT = TOTAL_COST * STATUS_DISCOUNT*] SEARCH_BY_CUSTOMER (CID) SEARCH_BY_PRODUCT (PID) TOTAL_PURCHASE_OF_PRODUCT (PID) PURCHASE_IN_LAST_N_DAYS (PID, N)
TRIGGERS	**TRIGGERS**	**TRIGGERS**	**TRIGGERS**	**TRIGGERS**

/	ON UPDATE => {IF CURRENT_STOCK < MIN_MARGIN: SHOW A MESSAGE THAT IT IS BELOW AND MENTION THE AMOUNT}	ON INSERT => {SET STATUS TO BRONZE}
		        {SET REGISTER_DATE TO CURRENT DATE}
		        {SET TOTAL_PURCHASE TO ZERO}
		[CAN ALSO HANDLED INSIDE THE PROCEDURE]
		
		ON UPDATE => {
		  IF PURCHASE > 100 : STATUS := BRONZE
		  ELSIF PURCHASE > 500 : STATUS := SILVER
		  ELSIF PURCHASE > 2000 AND MEMBERSHIP_DURATION > 6 MONTHS : STATUS := GOLD
		  ELSIF PURCHASE > 5000 AND MEMBERSHIP_DURATION > 12 MONTHS : STATUS := PLATINUM
		}
			/	/