CS6360.001 DATABASE DESIGN

PROJECT: DATABASE SYSTEM FOR UBER EATS

TEAM NUMBER: Uber Eats – T5

TEAM MEMBERS

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Step 6: Create tables using appropriate SQL command.

Make sure to include primary key and foreign key definitions and triggered actions on foreign keys.

Decide also about NOT NULL constraints and DEFAULT values for the attributes.

CREATE TABLE **Person** (

loginId   CHAR(10)   NOT NULL,

fName   VARCHAR(20)   NOT NULL,

mName   VARCHAR(20),

lName   VARCHAR(20)   NOT NULL,

PRIMARY KEY(loginId));

CREATE TABLE **Person_Phone_Number**(

loginId   CHAR(10)   NOT NULL,

person_phoneNo   CHAR(10),

PRIMARY KEY(loginId),

FOREIGN KEY(loginId) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **SupportAgent**(

loginId   CHAR(10)   NOT NULL,

PRIMARY KEY(loginId),

FOREIGN KEY(loginId) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **Customer**(

loginId   CHAR(10)   NOT NULL,

email_id   VARCHAR(20)   NOT NULL,

PRIMARY KEY(loginId),

FOREIGN KEY(loginId) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **Address_Zip**(

zip   CHAR(6)   NOT NULL,

city   VARCHAR(10) NOT NULL,

state   VARCHAR(10) NOT NULL,

PRIMARY KEY(zip));

CREATE TABLE **Address**(

loginId   CHAR(10)   NOT NULL,

house_no   VARCHAR(5)   NOT NULL,

st_name   VARCHAR(20)   NOT NULL,

zip   CHAR(6)   NOT NULL,

PRIMARY KEY(loginId),

FOREIGN KEY(loginId) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(zip) REFERENCES Address_Zip(zip) ON DELETE SET NULL ON UPDATE CASCADE);

CREATE TABLE **AccDetails**(

acc_no   CHAR(10)   NOT NULL,

routing_no   CHAR(7)   NOT NULL,

acc_holder_name   VARCHAR(20)   NOT NULL,

PRIMARY KEY(acc_no));

CREATE TABLE **LicenseDetails**(

license_no   VARCHAR(10)   NOT NULL,

gender   CHAR,

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DOB              DATE,

expiry           DATE    NOT NULL,

license_issue_state      CHAR(10),

PRIMARY KEY(license_no));
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CREATE TABLE DeliveryPartner(

loginId          CHAR(10)         NOT NULL,

employeeId       CHAR(5)          NOT NULL,

rating           CHAR,

$_shareorder     FLOAT            NOT NULL        DEFAULT         0.4

acc_no           CHAR(10)         NOT NULL,

license_no       VARCHAR(15)   NOT NULL        DEFAULT         "Not Entered",

PRIMARY KEY(loginId),

FOREIGN KEY(loginId) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(acc_no) REFERENCES AccDetails(acc_no) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY(license_no) REFERENCES LicenseDetails(license_no) ON DELETE SET NULL ON UPDATE SET
DEFAULT);
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CREATE TABLE SupportRequest(

requestId        CHAR(10)         NOT NULL,

date             DATE,

query            VARCHAR(150)         DEFAULT         "Need help",

severity         CHAR DEFAULT 'L',

support_agent_id     CHAR(10)         NOT NULL,

customer_id          CHAR(10)         NOT NULL,

PRIMARY KEY(requestId),
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FOREIGN KEY(support_agent_id) REFERENCES SupportAgent(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(customer_id) REFERENCES Customer(loginId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **Restaurant**(

restaurantId	CHAR(10)	NOT NULL,	
restaurant_manager_id	CHAR(10)	NOT NULL,	
open_time	TIME	DEFAULT	09:00:00,
close_time	TIME	DEFAULT	22:00:00,
acc_no	CHAR(10)	NOT NULL,	
house_no	VARCHAR(5),		
street_name	VARCHAR(20),		
zip	CHAR(6),		
discount_percent	FLOAT,		

PRIMARY KEY(restaurantId),

FOREIGN KEY(restaurant_manager_id) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(acc_no) REFERENCES AccDetails(acc_no) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY(zip) REFERENCES Address_zip(zip) ON DELETE SET NULL ON UPDATE CASCADE);

CREATE TABLE **RestaurantMenu**(

restaurantId	CHAR(10)	NOT NULL,
item_name	VARCHAR(20)	NOT NULL,
items_description	VARCHAR(40)	NOT NULL,
item_price	FLOAT	NOT NULL,

PRIMARY KEY(restaurantId, item_name),

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **RestaurantPhoneNumber**(

restaurantId   CHAR(10)   NOT NULL,

phone_no   CHAR(10)   NOT NULL,

PRIMARY KEY(restaurantId, phone_no),

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **DiscountCoupon**(

couponCode   CHAR(10)   NOT NULL,

discount_percentage   DOUBLE   NOT_NULL,

min_order_amount   DOUBLE,

PRIMARY KEY(couponCode));

CREATE TABLE **ParticipatingRestaurants**(

couponCode   CHAR(10)   NOT NULL,

restaurant_id   CHAR(10)   NOT NULL,

PRIMARY KEY(couponCode, restaurant_id),

FOREIGN KEY(couponCode) REFERENCES DiscountCoupon(couponCode) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **PaymentDetails**(

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payment_card_no      CHAR(10)      NOT NULL,

card_expiry          DATE          NOT NULL,

PRIMARY KEY(payment_card_no) ON DELETE CASCADE ON UPDATE CASCADE);
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CREATE TABLE Order(

orderId        CHAR(10)      NOT NULL,

customerId     CHAR(10)      NOT NULL,

cart_id        CHAR(10)      NOT NULL,

discount_code  CHAR(10),

order_date     DATE          NOT NULL,

total_amount   DOUBLE        NOT_NULL,

tax            DOUBLE        NOT_NULL,

discount       DOUBLE,

rating         INT,

payment_card_no      CHAR(10)      NOT NULL,

PRIMARY KEY(orderId, customerId, cart_id),

FOREIGN KEY(customerId) REFERENCES Person(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(card_id) REFERENCES CART(cartId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(discount_code) REFERENCES DiscountCoupon ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY(payment_card_no) REFERENCES PaymentDetails(payment_card_no) ON DELETE SET NULL
ON UPDATE CASCADE);
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CREATE TABLE Items(

restaurantId         CHAR(10)      NOT NULL,

item_name            VARCHAR(20)   NOT NULL,

quantity             INT           NOT NULL,
```

PRIMARY KEY(restaurantId, item_name),

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(item_name) REFERENCES RestaurantMenu(restaurantId, item_name) ON DELETE SET NULL ON UPDATE CASCADE);

CREATE TABLE **Cart**(

restaurantId   CHAR(10)   NOT NULL,

customerId   CHAR(10)   NOT NULL,

PRIMARY KEY(restaurantId, customerId),

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY(customerId) REFERENCES Customer(customerId) ON DELETE SET NULL ON UPDATE CASCADE);

CREATE TABLE **OrderStatus**(

orderId   CHAR(10)   NOT NULL,

status   VARCHAR(10)   DEFAULT   "Pending"

restaurantId   CHAR(10)   NOT NULL,

delivery_partner_id   CHAR(10)   NOT NULL,

customer_id   CHAR(10)   NOT NULL,

PRIMARY KEY(orderId),

FOREIGN KEY(orderId) REFERENCES Order(orderId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(delivery_partner_id) REFERENCES DeliveryPartner(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(customer_id) REFERENCES Customer(loginId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **Prepares**(

restaurantId   CHAR(10)   NOT NULL,

orderId   CHAR(10)   NOT NULL,

PRIMARY KEY(restaurantId, orderId),

FOREIGN KEY(restaurantId) REFERENCES Restaurant(restaurantId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(orderId) REFERENCES Order(orderId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **Delivers**(

delivery_partner_id   CHAR(10)   NOT NULL,

order_id   CHAR(10)   NOT NULL,

PRIMARY KEY(delivery_partner_id, orderId),

FOREIGN KEY(delivery_partner_id) REFERENCES DeliveryPartner(loginId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(orderId) REFERENCES Order(orderId) ON DELETE CASCADE ON UPDATE CASCADE);

CREATE TABLE **Gets**(

customerId   CHAR(10)   NOT NULL,

couponCode   CHAR(10)   NOT NULL,

PRIMARY KEY(customerId, couponCode),

FOREIGN KEY(customerId) REFERENCES Customer(customerId) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(couponCode) REFERENCES DiscountCoupon(couponCode) ON DELETE NOT NULL ON UPDATE CASCADE);