**CS6360.001 DATABASE DESIGN**

**PROJECT: DATABASE SYSTEM FOR UBER EATS**

**TEAM NUMBER:** Uber Eats – T5

**TEAM MEMBERS**

Harsha Priya Daggubati (HXD220007)

Surya Teja Sri Jonnada (STJ220000)

***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,

DOB DATE,

expiry DATE NOT NULL,

license\_issue\_state CHAR(10),

PRIMARY KEY(license\_no));

----------------------------------------------------------------------------------------------------------------------------------

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);

----------------------------------------------------------------------------------------------------------------------------------

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),

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**(

payment\_card\_no CHAR(10) NOT NULL,

card\_expiry DATE NOT NULL,

PRIMARY KEY(payment\_card\_no) ON DELETE CASCADE ON UPDATE CASCADE);

----------------------------------------------------------------------------------------------------------------------------------

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);

----------------------------------------------------------------------------------------------------------------------------------

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);