

Group 2 Final Project Submission

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Project CARS4ALL

Abstract:

Canary Auto Parts is a premier new and used auto part supplier for several small auto repair shops in south Florida. Several business problems have recently developed within the company's value chain (e.g. customer service, marketing, quality, sales, strategy, and supply chain) due to their inability to analyze and manage their capital resources effectively. Currently, they do not have any online transaction processing (OLTP) system. Management is proposing a new project (CARS4ALL) to implement an OLTP system across all functional departments of the organization.

The major features of Project CARS4ALL is to improve quality management, reduce resources required for sales, and increase the analytical and forecasting ability within the organization. First, OLTP system will improve quality management by creating a thorough record of customer feedback data for every auto part ordered from our vendors. This empowers the organization to transform customer feedback data to support decision making and provide business insights in quality management. Second, it will reduce expenses and resources required for all sales by improving the procurement process from vendors. The OLTP system will enhance the ability to track all auto parts available from all vendors. Thus, improving the organization's buying power and inventory management. Finally, organizational data from this OLTP system can be transformed into an online analytical processing (OLAP) through an ETL process to optimize support decision making and provide business insights through analysis and forecasting ability.

Project Title – CARS4ALL

Name – Canary Auto Parts

Roles –

1. ***Team Lead*** – Frantz-Michel Bataille
2. ***Design Leads*** – Paul Tamayo, Corey Slayton
3. ***SQL Gurus*** – Srivardhan Ranga and Joseph Camacho
4. ***Testers*** – Kinnari Janakbhai Patel and Corey Slayton
5. ***Application Design Leads*** - Srivardhan Ranga and Kinnari Janakbhai Patel

Business Features:

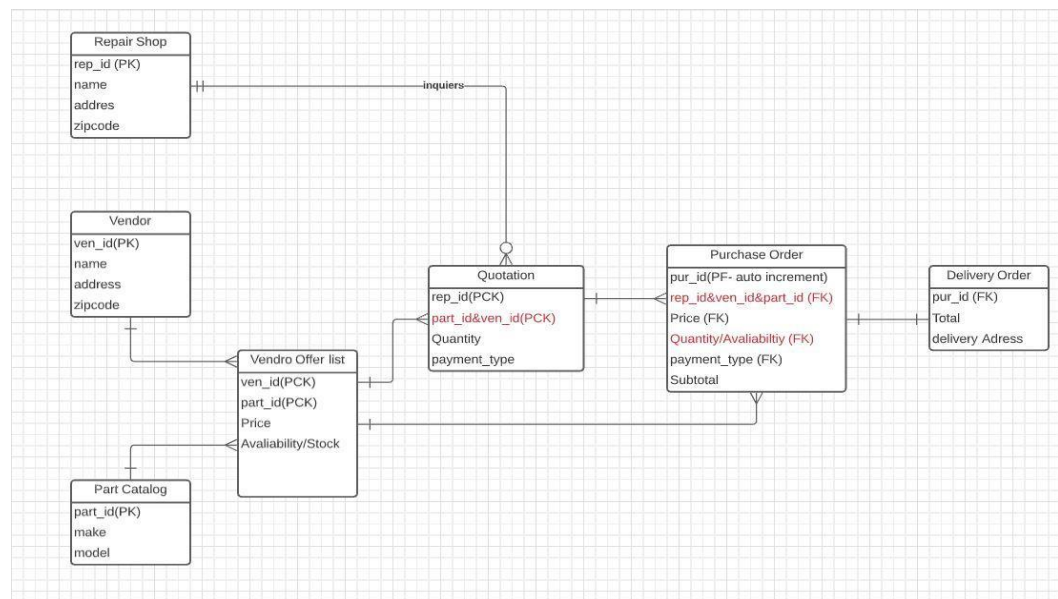
- Repair Shops will be able to purchase specific parts for specific brand and car (make/model) from multiple vendors
- Vendors will be able to post all their stock that's availability for repairs shops to able to select from
- Repair Shops will be able to check the availability of the part they are looking for before placing the order.
- Repair shops will be able to add products from multiple vendors that they wish to purchase in a cart (via website) to get more control over the total amount and shipment before placing the order.
- Repair Shops will have access to CC information to purchase for the parts needed for the clients (if they choose to pay via credit card). Repair Shops can save the card on file for future purchases.
- Repair Shops will have access to preset queries to provide statistical information on sales orders on their client's favorite car brands and more
- With the use of SubscriptionEndDate: Repair Shops and Vendors can be notified before their subscription for the service is going to expire.
- With the use of lastUpdatedDate: Our Service can notify Vendors to update their stock after one month of lastUpdatedDate.
- With the use of Vendor and Repair Shop License: the chances of repair Shops being scammed by fake vendors can be minimized.

Business Rules:

- Repair shops have the option to use one or multiple carts to shop for auto parts
- Each cart can contain one or more different cart items, while each cart item can be offered from a different vendor
- Vendors can have many different auto part offerings
- Vendors can post what parts they have available and the quantity
- Once all items are selected, repair shops can place an order for the auto parts in the cart
- Repair shops will have the option to make payments with a credit card on file
- One or multiple payments can be made for an order item

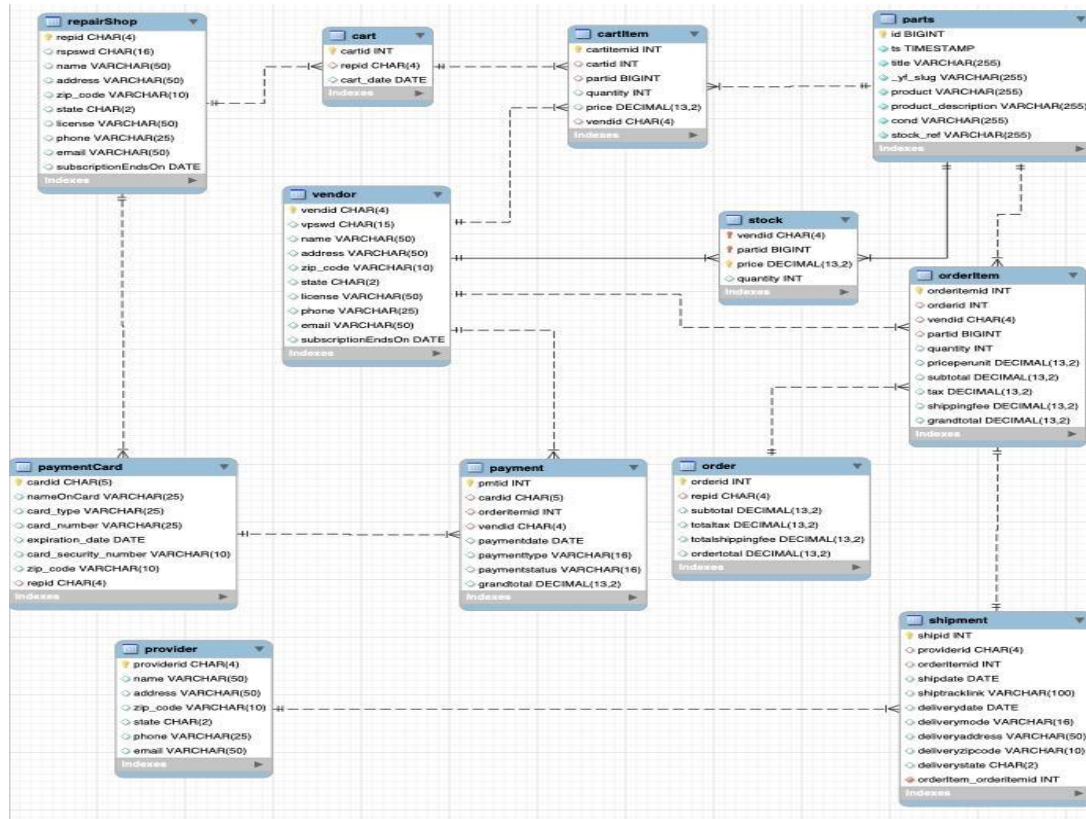
ER Diagram:

o Base Design



o Final ER Model

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Cases:

1. A new repair shop (RepID: A USP, Name: AutoSpector, Address: 3310 SW Miami FL, 33173, License: 1K2S3C4P5F6, Email: autospec@gmail.com, Phone: 9736661230) subscribed for 1 year plan on October 5, 2021.
2. Repair shop: AutoSpector added 7 units of Mazda 3 BL 15x60 inch alloy wheel to the cart.
3. A vendor Jason Supply added 5 units of FORD RANGER PK LEFT REAR WHEEL ARCH FLARE (Part ID: 239) to stock.
4. Vendor INIF updated the price of Part ID:19 from \$4765 to \$3900

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5. The service wants to get a list of repair shops whose subscription will expire on October 20, 2021
6. Repair shop ZASY updated the shop address to: 1234 SE Davie FL 33122.

Cases Implementation (SQL)

-- 1. A new repair shop (RepID: AUSP, Name: AutoSpector, Address: 3310 SW Miami FL, 33173, License: 1K2S3C4P5F6, Email: autospec@gmail.com, Phone: 9736661230) subscribed for 1 year plan on October 5, 2021.

```
INSERT INTO repairShop VALUES
    ('AUSP','AutoSpector','3310 SW
MIAMI',33173,'FL','1K2S3C4P5F6',9736661230,'autospec@gmail.com','2022-10-05
00:00:00');
```

-- 2. Repair shop: ZASY added 15 units of FORD TRANSIT MANUAL VEHICLE WRECK PART 2008 to the cart.

```
INSERT INTO cart VALUES
    ('300001','ZASY','2021-10-06');

INSERT INTO cartItem VALUES
    (400001,300001,13,15,2021,'UUPG');
```

-- 3. Vendor ANDN added 5 units of Part ID: 4 to stock.

```
UPDATE stock
SET
    quantity = 5 + quantity
WHERE
    (vendid,partid)=('ANDN',4);

select vendid AS 'VendorID',
    partid,
    price,
    quantity AS 'updated quantity'
from stock
where (vendid,partid)=('ANDN',4);
```

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-- 4. Vendor INIF updated the price of Part ID:19 from \$4765 to \$3900

UPDATE stock

SET

price = 3900

WHERE (vendid,partid)=('INIF',19);

SELECT *

FROM stock

WHERE (vendid,partid)=('INIF',19);

-- 5. The service wants to get a list of repair shops whose subscription will expire on October 20, 2022 (**Indexing**)

CREATE INDEX vendsubdate

ON vendor (subscriptionEndsOn);

SELECT v.vendid AS 'Vendor ID',

v.subscriptionEndsOn AS 'Subscription Expires In(Days)'

FROM vendor v

WHERE CAST(v.subscriptionEndsOn AS DATE)<2022-20-10

ORDER BY `Subscription Expires In(Days)`;

-- 6. Repair shop ZASY updated the shop address to: 1234 SE Davie FL 33122.

UPDATE repairShop

SET

Address='1234 SE Davie'

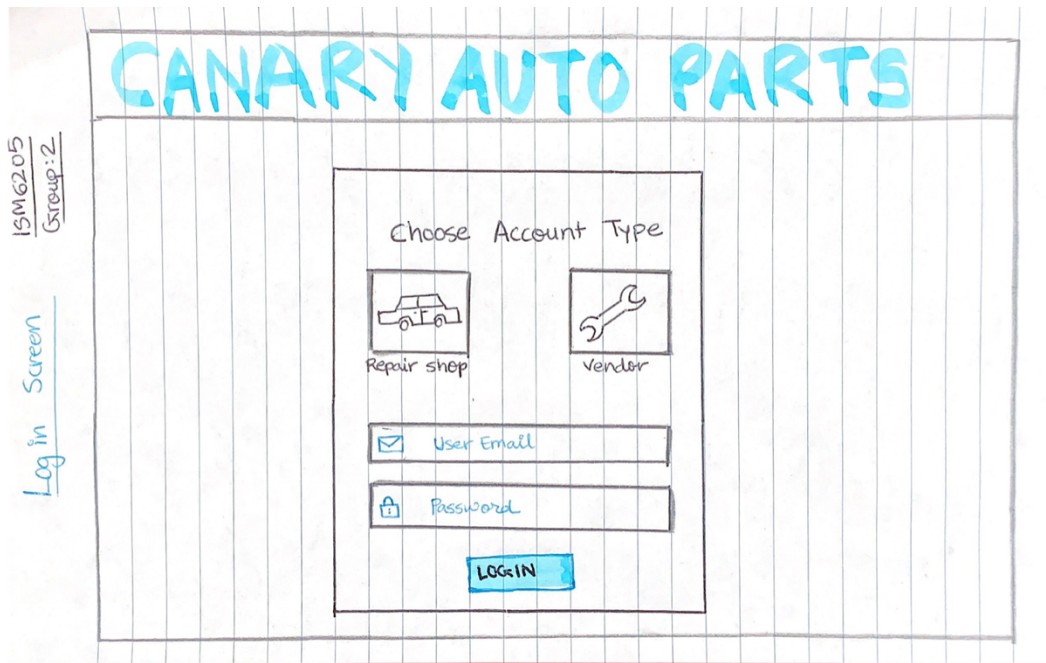
Zip_code=33122

State='FL'

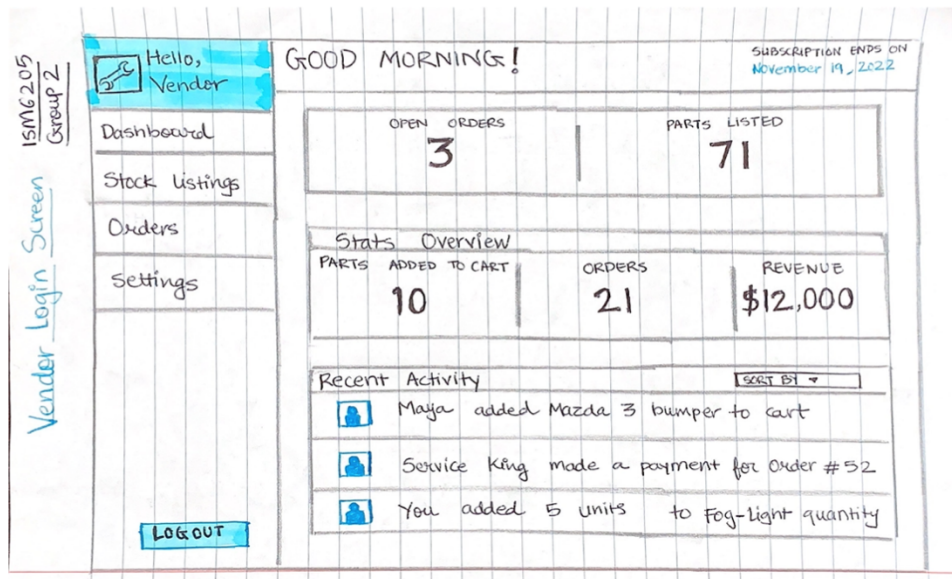
WHERE repid='ZASY';

Application Design Screens:

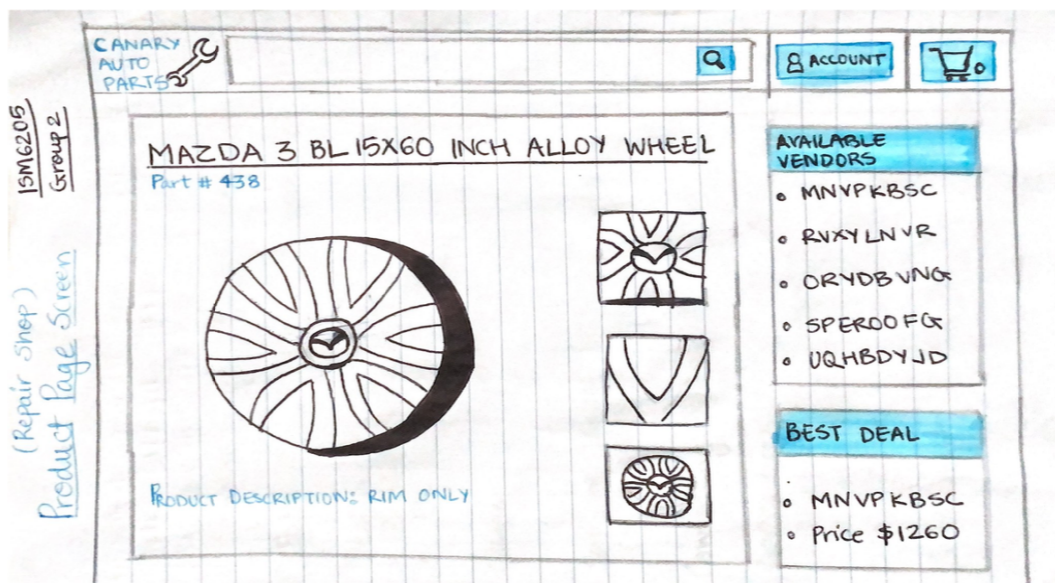
● **Login Screen**



● **Vendor Login Screen**



● Product Page Screen (Repair Shop)



Concluding Remarks:

_____Throughout the project, we have taken technical lessons and applied them to our database. In order to reduce the time it takes to return query results, the architecture of the database has been optimized in order to reduce the number of complex SQL queries while retaining the ability to return thorough and relevant information. Using the INNER JOIN syntax we reduce the amount of duplicate information along with the addition of other relevant information. When fetching this information the majority of data was able to be retrieved with only two tables, coupled with indexing greatly reduced the time of retrieval of data. The use of time syntax also aided us greatly as we were able to present customers with the amount of time left until their subscription was renewed. Additionally, we learned that when transferring data to a cloud-based system it would be prudent to use syntax compatible with other systems and IDEs, this issue appeared when attempting to transfer data to a cloud database and alerted us of this issue.

The project, in general, allowed us to gain some insight into the process beyond the technical additions necessary. Referential integrity was an issue that even though it was planned for, threatened to give us issues. Though, thorough planning with the ER Diagram reduces the probability of these errors appearing.

CREATE TABLES:

```
CREATE DATABASE cars4all;  
USE cars4all;  
drop database cars4all;
```

```
CREATE TABLE repairShop (  
    repid CHAR(4) PRIMARY KEY,  
    `name` VARCHAR(50),  
    address VARCHAR(50),  
    zip_code VARCHAR(10),  
    state CHAR(2),  
    license VARCHAR(50),  
    phone VARCHAR(25),  
    email VARCHAR(50),  
    subscriptionEndsOn DATE  
);  
CREATE TABLE vendor (  
    vendid CHAR(4) PRIMARY KEY,  
    `name` VARCHAR(50),  
    address VARCHAR(50),
```

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```
        zip_code VARCHAR(10),
        state CHAR(2),
        license VARCHAR(50),
        phone VARCHAR(25),
        email VARCHAR(50),
        subscriptionEndsOn DATE
    );

CREATE TABLE provider (
    providerid CHAR(4) PRIMARY KEY,
    `name` VARCHAR(50),
    address VARCHAR(50),
    zip_code VARCHAR(10),
    state CHAR(2),
    phone VARCHAR(25),
    email VARCHAR(50)
);

CREATE TABLE paymentCard (
    cardid CHAR(5) PRIMARY KEY,
    nameOnCard VARCHAR(25),
    card_type VARCHAR(25),
    card_number VARCHAR(25),
    expiration_date DATE,
    card_security_number VARCHAR(10),
    zip_code VARCHAR(10)
);

/*-----DATASET
STARTS-----
---*/
-- Table structure for table `parts`
DROP
    TABLE IF EXISTS `parts`;
CREATE TABLE `parts` (
    `id` BIGINT(20) UNSIGNED NOT NULL AUTO_INCREMENT,
    `ts` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP,
    `title` VARCHAR(255) COLLATE UTF8_UNICODE_CI NOT NULL,
    `_yf_slug` VARCHAR(255) COLLATE UTF8_UNICODE_CI NOT NULL,
    `product` VARCHAR(255) COLLATE UTF8_UNICODE_CI NOT NULL,
    `product_description` VARCHAR(255) COLLATE UTF8_UNICODE_CI NOT NULL,
    `cond` VARCHAR(255) COLLATE UTF8_UNICODE_CI NOT NULL,
    `stock_ref` VARCHAR(255) COLLATE UTF8_UNICODE_CI NOT NULL,
    PRIMARY KEY (`id`),
    UNIQUE KEY `title` (`title` , `_yf_slug`),
    KEY `ts` (`ts`),
    KEY `_yf_slug` (`_yf_slug`)
) ENGINE=INNODB AUTO_INCREMENT=5445 DEFAULT CHARSET=UTF8 COLLATE =
UTF8_UNICODE_CI;
/*-----DATASET
ENDS-----
---*/
```

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```
CREATE TABLE stock (  
    vendid CHAR(4),  
    partid BIGINT(20) UNSIGNED,  
    price DECIMAL(13 , 2 ),  
    quantity INT,  
    PRIMARY KEY (vendid , partid, price),  
    CONSTRAINT fk_stock_vendor_vendid FOREIGN KEY (vendid)  
        REFERENCES vendor (vendid),  
    CONSTRAINT fk_stock_parts_partsid FOREIGN KEY (partid)  
        REFERENCES parts (id)  
);  
  
CREATE TABLE cart (  
    cartid INT PRIMARY KEY,  
    repid CHAR(4),  
    cart_date DATE,  
    CONSTRAINT fk_cart_repairshop_repid FOREIGN KEY (repid)  
        REFERENCES repairShop (repid)  
);  
  
CREATE TABLE cartItem (  
    cartitemid INT PRIMARY KEY,  
    cartid INT,  
    partid BIGINT(20) UNSIGNED,  
    quantity INT,  
    price DECIMAL(13 , 2 ),  
    vendid CHAR(4),  
    CONSTRAINT fk_cartItem_cart_cartid FOREIGN KEY (cartid)  
        REFERENCES cart (cartid),  
    CONSTRAINT fk_cartItem_parts_id FOREIGN KEY (partid)  
        REFERENCES parts (id),  
    CONSTRAINT fk_cartItem_vendor_vendid FOREIGN KEY (vendid)  
        REFERENCES vendor (vendid)  
);  
  
CREATE TABLE `order` (  
    orderid INT PRIMARY KEY,  
    repid CHAR(4),  
    subtotal DECIMAL(13 , 2 ),  
    totaltax DECIMAL(13 , 2 ),  
    totalshippingfee DECIMAL(13 , 2 ),  
    ordertotal DECIMAL(13 , 2 ),  
    CONSTRAINT fk_order_repairshop_repid FOREIGN KEY (repid)  
        REFERENCES repairshop (repid)  
);  
  
CREATE TABLE orderItem (  
    orderitemid INT PRIMARY KEY,  
    orderid INT,  
    vendid CHAR(4),  
        partid BIGINT(20) UNSIGNED,  
    quantity INT,  
    priceperunit DECIMAL(13 , 2 ),  
    subtotal DECIMAL(13 , 2 ),
```

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```
tax DECIMAL(13 , 2 ),
shippingfee DECIMAL(13 , 2 ),
grandtotal DECIMAL(13 , 2 ),
CONSTRAINT fk_orderItem_parts_id FOREIGN KEY (partid)
    REFERENCES parts (id),
CONSTRAINT fk_orderItem_order_orderid FOREIGN KEY (orderid)
    REFERENCES `order` (orderid),
CONSTRAINT fk_orderItem_vendor_vendid FOREIGN KEY (vendid)
    REFERENCES vendor (vendid)
);

CREATE TABLE shipment (
    shipid INT PRIMARY KEY,
    providerid CHAR (4),
    orderitemid INT,
    shipdate DATE,
    shiptracklink VARCHAR(100),
    deliverydate DATE,
    deliverymode VARCHAR(16),
    deliveryaddress VARCHAR(50),
    deliveryzipcode VARCHAR(10),
    deliverystate CHAR(2),
    CONSTRAINT fk_shipment_provider_providerid FOREIGN KEY (providerid)
        REFERENCES provider (providerid),
    CONSTRAINT fk_shipment_orderitem_orderitemid FOREIGN KEY (orderitemid)
        REFERENCES orderitem (orderitemid)
);

CREATE TABLE payment (
    pmtid INT PRIMARY KEY,
    cardid CHAR(5),
    orderitemid INT,
    vendid CHAR(4),
    paymentdate DATE,
    paymenttype VARCHAR(16),
    paymentstatus VARCHAR(16),
    grandtotal DECIMAL(13 , 2 ),
    CONSTRAINT fk_payment_paymentCard_cardid FOREIGN KEY (cardid)
        REFERENCES paymentCard (cardid),
    CONSTRAINT fk_payment_orderitem_orderitemid FOREIGN KEY (orderitemid)
        REFERENCES orderitem (orderitemid),
    CONSTRAINT fk_payment_vendor_vendid FOREIGN KEY (vendid)
        REFERENCES vendor (vendid)
);
```

INSERT TABLES:

Note: We will be submitting an additional INSERT VALUES .txt file because, we inserted a large dataset. For the purpose of this document, we are adding a few values for each table.

INSERT INTO vendor VALUES

```
('JNXW','pjniwpcyx','955 End
Land',11554,'SC','OFSX6LLC9A','942-369-9091','ahmed_vanzetten5598@imap.cc',
'2022-08-30 00:00:00'),
('MQEO','rjmjwvcj','407 Rocky Field
Estate',83290,'CO','QXJFO1UQFV','431-742-7364','javier_duyn7855@fastmail.c
n','2022-09-04 00:00:00'),
('SEYY','ozyelgvk','107 Misty
Ramp',78098,'KS','G5B0PWNDKO','476-751-3012','bastiaans5744@fastmail.cn','
2022-06-07 00:00:00'),
('QVXT','yudpyoir','P.O. Box
87319',24592,'MT','SUE4GRK5KV','459-002-8788','burnett9057@airpost.net','2
022-07-02 00:00:00');
```

INSERT INTO RepairShop VALUES

```
('SXUD','lywkkclo','P.O. Box
93144',57286,'ND','UTPEL4ERG','330-044-5931','toya9507@fastmail.to','2022
-05-25 00:00:00'),
('FXQP','rxrpzfeq','380 Park
Quay',46716,'MA','TSBWVB6UV','803-250-4468','barton_rutledge4804@bestmail
.us','2022-07-18 00:00:00'),
('FQXP','ltemwmvo','803 Heather
Expressway',86303,'GA','QULVXK5W2B','556-402-8117','honzelaar233@fast-ema
il.com','2022-07-24 00:00:00'),
('HVSS','ducqrnfl','P.O. Box
67544',41789,'OH','45PZBY0NPQ','280-639-6110','winter_boonzayer1522@mailbo
lt.com','2021-11-12 00:00:00'),
('IIXN','oalksgoj','513 Grove
Court',28192,'WA','8555VSM265','801-285-5876','gina5449@warppmail.net','202
1-10-14 00:00:00'),
('PVTB','zkdruhsv','148 Fourth
Path',440,'MO','CH5JIWY3ZN','937-651-3004','lisha2714@petml.com','2022-06-
16 00:00:00'),
('VSKP','pknyituh','P.O. Box
63294',8675,'MD','T48NG3UXLE','259-603-1594','elliott_druppers140@50mail.c
om','2022-05-13 00:00:00');
```

INSERT INTO provider VALUES

```
('EBYH','fryvfyxk','P.O. Box
99089',77926,'WV','583-015-2194','sol9341@mailas.com'),
('UMLQ','jewmyyno','818 Blue Lock
Crest',62051,'AZ','612-073-2287','england2606@fastmailbox.net'),
('NGLD','nzjbnqog','562 Silver
Peavey',1349,'MN','406-942-0477','ruben_sims734@mailas.com'),
('HAKT','vkmmayath','513 Fox
Dell',50309,'NC','868-489-8849','kaye1063@fastmailbox.net'),
```

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```
('TXTI','swfnwdbl','442 Emerald
Turnpike','52427','WV','284-968-0447','montoya8834@emailuser.net'),
('XALO','qchzodhu','967 SW
Second','38532','VT','789-110-3933','verrips967@16mail.com'),
('BJNQ','jdsbqeum','900 Circle
Bay','25661','IN','238-497-2781','dustin_snuif3045@yepmail.net');
```

INSERT INTO parts VALUES

```
(1,'2018-03-30 06:13:33','CITROEN BERLINGO MANUAL VEHICLE WRECKING
PARTS
2002','/all-parts/currently-dismantling/citroen-berlingo-manual-vehicle-wr
ecking-parts-2002','STK-VA01836','CITROEN BERLINGO MANUAL VEHICLE WRECKING
PARTSPRICE STATED IS FOR 1 WHEEL NUTTHIS VEHICLE IS FOR PARTS USE ONLY NOT
FOR SALE COMPLETESUITS 2002 MODELS','THIS PART IS USED','Ref #VA01836'),
(2,'2018-03-30 06:13:34','DAIHATSU ROCKY MANUAL VEHICLE WRECKING PARTS
1994','/all-parts/currently-dismantling/daihatsu-rocky-manual-vehicle-wrec
king-parts-1994','STK-VA01756','DAIHATSU ROCKY MANUAL VEHICLE WRECKING
PARTSPRICE STATED IS FOR 1 WHEEL NUTTHIS VEHICLE IS FOR PARTS USE ONLY NOT
FOR SALE COMPLETESUITS 1994 MODELS','THIS PART IS USED','Ref #VA01756'),
(3,'2018-03-30 06:13:36','DAIHATSU TERIOS MANUAL VEHICLE WRECKING
PARTS
2000','/all-parts/currently-dismantling/daihatsu-terios-manual-vehicle-wre
cking-parts-2000','STK-VA01875','DAIHATSU TERIOS MANUAL VEHICLE WRECKING
PARTSPRICE STATED IS FOR 1 WHEEL NUTTHIS VEHICLE IS FOR PARTS USE ONLY NOT
FOR SALE COMPLETESUITS 2000 MODELS','THIS PART IS USED','Ref #VA01875'),
(4,'2018-03-30 06:13:39','FORD COURIER MANUAL VEHICLE WRECKING PARTS
2004','/all-parts/currently-dismantling/ford-courier-manual-vehicle-wrecki
ng-parts-2004-11','STK-VA01850','FORD COURIER MANUAL VEHICLE WRECKING
PARTSPRICE STATED IS FOR 1 WHEEL NUTTHIS VEHICLE IS FOR PARTS USE ONLY NOT
FOR SALE COMPLETESUITS 2004 MODELS','THIS PART IS USED','Ref #VA01850'),
(5,'2018-03-30 06:13:49','FORD EVEREST AUTO VEHICLE WRECKING PARTS
2015','/all-parts/currently-dismantling/ford-everest-auto-vehicle-wrecking
-parts-2015','STK-VA01416','FORD EVEREST AUTO VEHICLE WRECKING PARTSPRICE
STATED IS FOR 1 WHEEL NUTTHIS VEHICLE IS FOR PARTS USE ONLY NOT FOR SALE
COMPLETESUITS 2015 MODELS','THIS PART IS USED','Ref #VA01416');
```

INSERT INTO paymentcard VALUES

```
('8HAK5','Sal Langenfeld ','visa',7072390003118740,'2025-09-27
00:00:00',625,8675,'SXUD'),
('87I33','Karri Crepeau ','mastercard',118376351620168,'2022-05-01
00:00:00',707,62865,'FXQP'),
('B28AD','Denyse Bose ','Amex',2134231929173700,'2022-10-02
00:00:00',393,15255,'FQXP'),
('JC0JH','Aurora Kraker ','visa',8144755258670260,'2024-05-19
00:00:00',861,97996,'HVSS'),
('1A8C6','Laurie Feathers','mastercard',4469275311515220,'2024-03-15
00:00:00',79,76459,'IIXN'),
('23C07','Maragret Hilgen','Amex',1501742348899840,'2023-11-15
00:00:00',662,91674,'PVTB'),
```

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```
('G0KGA','Ammie Preslar ','visa',8723078533728880,'2022-07-28
00:00:00',901,85756,'VSKP'),
('J6DHH','Loretta Kitzmil','mastercard',7656653003517750,'2022-02-21
00:00:00',599,25771,'CNQK'),
```

INSERT INTO stock VALUES

```
('XMSY',533,1551,469),
('LJCC',464,2179,403),
('LJIM',670,3287,493),
('LLOG',909,4795,265),
('WBWE',99,1402,267),
('ALJJ',133,4298,403),
('OITD',261,3047,461),
('WBWE',547,665,252),
('HKQI',7,3391,395),
('YEVV',616,2439,338),
('ANTS',376,2479,432),
('WBWE',843,3416,56),
('JNXW',933,4918,189),
('UXXC',119,1555,381),
```

INSERT INTO `order` VALUES

```
(2501,'SXUD',NULL,NULL,NULL,NULL),
(2502,'FXQP',NULL,NULL,NULL,NULL),
(2503,'FQXP',NULL,NULL,NULL,NULL),
(2504,'HVSS',NULL,NULL,NULL,NULL),
(2505,'IIXN',NULL,NULL,NULL,NULL),
(2506,'PVTB',NULL,NULL,NULL,NULL),
(2507,'VSKP',NULL,NULL,NULL,NULL),
(2508,'CNQK',NULL,NULL,NULL,NULL),
(2509,'ZXOC',NULL,NULL,NULL,NULL),
(2510,'VTNT',NULL,NULL,NULL,NULL),
(2511,'KUCP',NULL,NULL,NULL,NULL),
(2512,'XNEO',NULL,NULL,NULL,NULL),
```

INSERT INTO orderitem VALUES

```
(3001,2501,'XMSY',533,9,1551,13959,17,69,14045),
(3002,2501,'LJCC',464,10,2179,21790,40,54,21884),
(3003,2501,'LJIM',670,3,3287,9861,28,191,10080),
(3004,2501,'LLOG',909,8,4795,38360,14,176,38550),
(3005,2501,'WBWE',99,7,1402,9814,14,51,9879),
(3006,2501,'ALJJ',133,8,4298,34384,28,187,34599),
(3007,2501,'OITD',261,5,3047,15235,40,78,15353),
(3008,2501,'WBWE',547,10,665,6650,11,54,6715),
```

INSERT INTO payment VALUES

```
(100001,NULL,3001,'XMSY',NULL,NULL,NULL,NULL),
(100002,NULL,3002,'LJCC',NULL,NULL,NULL,NULL),
(100003,NULL,3003,'LJIM',NULL,NULL,NULL,NULL),
(100004,NULL,3004,'LLOG',NULL,NULL,NULL,NULL),
```


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```
(100005,NULL,3005,'WBWE',NULL,NULL,NULL,NULL),
(100006,NULL,3006,'ALJJ',NULL,NULL,NULL,NULL),
(100007,NULL,3007,'OITD',NULL,NULL,NULL,NULL),
(100008,NULL,3008,'WBWE',NULL,NULL,NULL,NULL),
(100009,NULL,3009,'HKQI',NULL,NULL,NULL,NULL),
```

SQL QUERIES

(Screen: *Vendor Login Screen*)

-- 1 Total Revenue of vendor

```
SELECT v.vendid AS 'Vendor ID',
       sum(oi.grandtotal) AS 'Revenue'
FROM orderitem oi
     INNER JOIN vendor v
           ON oi.vendid=v.vendid
GROUP BY oi.vendid;
```

-- 2 Total Orders for vendor

```
SELECT v.vendid AS 'Vendor ID',
       count(oi.orderitemid) AS 'Total Orders'
FROM orderitem oi
     INNER JOIN vendor v
           ON oi.vendid=v.vendid
GROUP BY oi.vendid;
```

-- 3 Total Parts listed by vendor (different parts, not quantity)

```
SELECT v.vendid AS 'Vendor ID',
       count(s.partid) AS 'Total Parts Listed'
FROM vendor v
     INNER JOIN stock s
           ON v.vendid=s.vendid
GROUP BY s.vendid;
```

-- 4 Vendors whose Subscription will end soon(30 days from current date, sorted by days left)

```
SELECT v.vendid AS 'Vendor ID',
       DATEDIFF(v.subscriptionEndsOn,CURDATE()) AS 'Subscription Expires
In(Days) '
FROM vendor v
WHERE DATEDIFF(v.subscriptionEndsOn,CURDATE())<30
ORDER BY `Subscription Expires In(Days)`;
```

(Screen: *Product Page Screen (Repair Shop)*)

-- 1 Search Engine

```
SELECT DISTINCT p.id AS 'Part ID',  
               p.title AS 'Search Suggestion'  
FROM parts p  
WHERE p.title LIKE 'Ford % wheel %';
```

-- 2 Available Vendors

```
SELECT s.vendid,  
       p.title,  
       s.price,  
       s.quantity,  
       p.cond  
FROM stock s  
INNER JOIN parts p  
      ON s.partid=p.id  
WHERE p.title= 'FORD FIESTA WZ STEEL WHEEL HUB CAP' AND p.cond like  
'%used';
```

-- 3 Lowest price of part offered by vendor

```
SELECT p.title,s.vendid AS 'Vendor ID', min(s.price) AS 'Sorted by price',  
       s.quantity AS 'Units in Stock'  
FROM parts p  
      INNER JOIN stock s  
            ON s.partid=p.id  
            WHERE p.title='FORD FIESTA WZ STEEL WHEEL HUB CAP'  
      GROUP BY p.title,s.vendid, s.quantity  
      ORDER BY min(s.price);
```

Work Contribution Statement: (equally)

o Corey Slayton:

o Srivardhan Ranga:

o Kinnari Janakbhai Patel:

o Paul Tamayo:

o Frantz-Michel Bataille:

o Joseph Camacho:

Query Results:

(Screen: *Vendor Login Screen*)

-- 1 Total Revenue of vendor

Group 2: FINAL Project Submission20

vendorrevenue	
Vendor ID	Revenue
ALJJ	184072.00
ANDN	237380.00
ANTS	287270.00
AVRY	353082.00
AZCA	196514.00
BYRU	53572.00
CBIZ	419083.00
DOGU	31027.00
EHGK	91307.00
EPCO	209254.00
FWPF	116924.00
HKQI	74224.00
IEPP	152638.00
IHJJ	103310.00
INIF	267948.00
ISBO	107458.00
JBAX	104211.00
JNVF	131626.00
JNXW	197906.00
KWMP	464711.00
LBNF	157956.00
LHNX	93865.00
LJCC	228423.00
LJIM	86328.00
LLAJ	87832.00
LLOG	268760.00
LSUY	65584.00
MDTE	160642.00
MIMK	608540.00
MQEO	107799.00
OITD	273183.00
PMMH	148716.00
QKHB	88897.00
QOEX	89539.00
QTIQ	274779.00
RKJD	177007.00
RLSQ	87050.00
RRXM	21118.00
RTIG	173377.00
RZLC	74854.00
SCJT	50948.00
SDAY	140658.00
SJKD	122563.00
TLZF	176513.00
TZEH	111477.00
UITZ	156652.00
UPMO	27800.00
UUPG	102137.00
UWHF	69384.00
UXXC	137537.00
VHTG	90754.00
VSTW	58661.00
WBWE	304607.00
WGTD	375802.00
WHGW	34681.00
WLQO	75235.00
XMSY	297526.00
XTAH	292117.00
YASD	239428.00
YEVB	88701.00
YJSS	260153.00
ZQWQ	287823.00

-- 2 Total Orders for vendor

Group 2: FINAL Project Submission21

vendorordercount

Vendor ID	Total Orders
ALJJ	10
ANDN	16
ANTS	17
AYRY	32
AZCA	13
BYRU	3
CBIZ	28
DOGU	4
EHGK	7
EPCO	14
FWPF	11
HKQI	4
IEPP	14
IHJJ	5
INIF	22
ISBO	8
JBAX	7
JNVF	16
JNXW	16
KWMP	32
LBNF	9
LHNX	6
LJCC	15
LJIM	4
LLAJ	7
LLOG	15
LSUY	8
MDTE	11
MIMK	34
MQEO	8
OITD	19
PMMH	11
QKHB	8
QOEX	9
QTIQ	15
RKJD	12
RLSQ	5
RRXM	4
RTIG	11
RZLC	7
SCJT	5
SDAY	12
SJKD	7
TLZF	10
TZEH	8
UITZ	7
UPMO	6
UUPG	7
UWHF	5
UXXC	16
VHTG	8
VSTW	3
WBWE	23
WGTD	18
WHGW	8
WLQO	6
XMSY	20
XTAH	18
YASD	19
YEVB	8
YJSS	21
ZQWQ	16

-- 3 Total Parts listed by vendor (different parts, not quantity)

Group 2: FINAL Project Submission22

vendorpartscount	
Vendor ID	Total Parts Listed
ALJJ	18
ANDN	27
ANTS	31
AYRY	55
AZCA	22
BYRU	6
CBIZ	57
DOGU	13
EHGK	15
EPCO	23
FWPF	26
HKQI	16
IEPP	17
IHJJ	9
INIF	37
ISBO	13
JBAX	9
JNVF	32
JNXW	30
KWMP	56
LBNF	18
LHNX	12
LJCC	28
LJIM	11
LLAJ	12
LLQG	22
LSUY	14
MDTE	14
MIMK	52
MQEO	12
OITD	35
PMMH	21
QKHB	11
QOEX	15
QTIQ	27
RKJD	21
RLSQ	8
RRXM	11
RTIG	18
RZLC	12
SCJT	6
SDAY	28
SJKD	13
TLZF	16
TZEH	12
UITZ	14
UPMO	13
UUPG	17
UWHF	9
UXXC	25
VHTG	12
VSTW	7
WBWE	36
WGTD	32
WHGW	9
WLQO	8
XMSY	29
XTAH	30
YASD	31
YEVB	13
YJSS	33
ZQWQ	25

Group 2: FINAL Project Submission23

-- 4 Vendors whose Subscription will end soon(30 days from current date, sorted by days left)

vendorsubdate

Vendor ID	Subscription Expires In(Days)
LLAJ	5
RTIG	7
WHGW	11
SCJT	12
OITD	16
WGTD	17
XMSY	18
BYRU	24
LHNX	26

(Screen: *Product Page Screen (Repair Shop)*)

-- 1 Search Engine

searchresults

Search Suggestion	Part ID
FORD RANGER PJ LEFT FRONT WHEEL ARCH FLARE	5194
FORD RANGER PJ LEFT FRONT WHEEL ARCH FLARE	232
FORD RANGER PJ RIGHT REAR WHEEL ARCH FLARE	5196
FORD RANGER PJ RIGHT REAR WHEEL ARCH FLARE	234
FORD RANGER PK LEFT REAR WHEEL ARCH FLARE	5197
FORD RANGER PK LEFT REAR WHEEL ARCH FLARE	239

-- 2 Available Vendors

availablevendors

vendid	title	price	quantity	cond
KWMP	FORD FIESTA WZ STEEL WHEEL HUB CAP	3518.00	384	THIS PART IS USED
YEBB	FORD FIESTA WZ STEEL WHEEL HUB CAP	2505.00	242	THIS PART IS USED
ZQWQ	FORD FIESTA WZ STEEL WHEEL HUB CAP	4470.00	295	THIS PART IS USED
INIF	FORD FIESTA WZ STEEL WHEEL HUB CAP	910.00	482	THIS PART IS USED
ALJJ	FORD FIESTA WZ STEEL WHEEL HUB CAP	3285.00	29	THIS PART IS USED
LLAJ	FORD FIESTA WZ STEEL WHEEL HUB CAP	2216.00	486	THIS PART IS USED

-- 3 Lowest price of part offered by vendor

lowestpriceavailable

title	Vendor ID	Sorted by price	Units in Stock
FORD FIESTA WZ STEEL WHEEL HUB CAP	INIF	910.00	482
FORD FIESTA WZ STEEL WHEEL HUB CAP	LLAJ	2216.00	486
FORD FIESTA WZ STEEL WHEEL HUB CAP	YEBB	2505.00	242
FORD FIESTA WZ STEEL WHEEL HUB CAP	ALJJ	3285.00	29
FORD FIESTA WZ STEEL WHEEL HUB CAP	KWMP	3518.00	384
FORD FIESTA WZ STEEL WHEEL HUB CAP	ZQWQ	4470.00	295

