

*DATABASE INTEGRATION
PLAN*

TODDLER TIME

MAINEVILLE, OH



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Project Description

TODDLER TIME DATABASE

Toddler Time is a daycare located in Maineville, Ohio. Within the daycare, there are multiple preschool rooms, toddler rooms and an infant room. There are around 50-60 kids throughout the whole daycare that are brought in each day of the week by a parent or guardian. The daycare is required to have a lot of papers on file with the children's information which includes medical history, health insurances, emergency contacts, etc. There are multiple file cabinets that these papers are kept in and there aren't any databases currently that they can store all this information in. When looking for information on a child, you would have to look through the papers that are stored in a binder for each class or you can go to the office to go through the file cabinets to find their manilla folder with everything about the child. They also use paper when they are putting an employee's time in and time out of what shifts that individual worked and turn them in that way, so it is all on paper and in the cabinet.

When it comes to working at the daycare, when an individual is hired, they are required to complete a couple of online classes in order to obtain a certificate. This certificate allows the employee to become a headteacher at the daycare. This means that they are in charge of a specific room and create lesson plans for the children on a day to day basis. Now, it can be difficult sometimes when trying to keep up with what employees completed which classes due to the current file-based system. The online classes are taken on a site called OCCRRA, which is a site specifically for Ohio to provide teaching programs for people to get certified and learn what they need to know in order to provide kids with the proper assistance.

As each employee comes into work, they have their own piece of paper stored in their classroom that they use to keep track of what times they arrive for the day and what times they leave. Every other Friday, employees are required to turn in their timesheet in order for the manager to get them their checks the following week. Each time sheet is looked at individually and counted by hand on paper to find how many hours each employee worked to calculate how much they will be paid.

Doing all of these calculations by hand can definitely be tough after going through numerous time sheets and having to keep track of them all while maintaining organization.

When a child is being signed up to join the daycare, all of the forms are actually paper forms. These forms include information like the child's name, date of birth, home address, parent or guardian names, food allergies, etc. These are all important things we need to know about the child in case of any emergencies. After these forms are completed, they are filed in a filing cabinet and copies are made of them to keep in a separate binder in the child's classroom for the teacher to have access to.

Each Friday, as the child is being dropped off, the parent is required to come in and make their payment for the week, which can be paid with cash, debit or credit, check, etc. As the payment is made, a receipt is printed out and filed in order to keep track of the payments made. The daycare would want to make sure the parent or guardian of the child is keeping up with their payments and the math is also done by hand on how much they still owe or if they are kept up with them. The payments are also kept track on a sheet so that you can see what payments were made on what days and that is also filed along with the receipt.

Every morning, when kids are dropped off, a teacher will keep track of what time the child arrives and what time they leave. This is kept on a piece of paper inside the classroom binder along with other information about the child. Keeping track of these times allows the daycare to keep the child safe, knowing when they got there and when they left in case a child goes missing or something happens. These times allow the daycare to keep track of the attendance of children compared to the actual occupancy a classroom can hold.

At least once a week, head teachers for each room in the daycare tend to look through the materials and supplies they have on hand. They then go through a material form to fill out what materials and supplies they need along with how much they need of each thing. The things on this form could include diapers, wipes, hand sanitizer, etc. There could also be different suppliers that these materials come from.

These forms are then turned into the manager to have her sort through them, put together a huge order, and get the things needed for the following week. There could be multiple orders made for the different suppliers and can be difficult to keep track of if the orders are kept track of on paper. Misplacing one form could result in a room not getting the supplies needed which could cause small to big issues depending on what was needed.

As you can see, a lot of business processes in the daycare are still based off of a file-based approach and could cause some issues with having so many papers to keep track of. We would want to be able to find information as quickly as possible without having to mess up the organization of the papers. If we are able to implement our database approach into the daycare, we would be able to maintain integrity and allow us to keep the children safe.



EXTERNAL VIEWS

External View #1: Employee Time Sheet

The daycare typically use pieces of paper for each employee to fill out their hours for the weeks they worked. With a spreadsheet, it'll make it easier to view all of the employees and their hours all in one space. Putting the time in and time out on a tablet or system will allow the data to go straight to the manager and the database system. When an employee logs in on the tablet, they would put in their Employee ID, their First and Last Name and put in how many hours they worked for the week based off of their time sheet. That information can be then stored in a timesheet to make it a much easier thing to view overall.

Who would use: Employees

External View #2: Online Customer Form

If we had a website for the daycare that allowed the children's parents to complete an online form that had their children's information, it would make it easier to then send that data to the daycare's database system and allow an online view of it that both the parent and daycare can see. The information that a parent could put in includes the child's First and Last Name, their address, emergency contact information, food allergies, etc. The parent will be able to update their profile just like updating a Facebook profile with a picture and information about their child. Having this will allow access to the information much quicker and make it easier to view.

Who would use: Parent or Guardian, Employees, Manager

External View #3: Teacher Certificate Progress Sheet

For this type of external view, it would be great to have a sheet that keeps track of teacher certificates. This will show the assistant teachers what they have left to finish before they can become a head teacher.

When scheduling employees for work throughout the week, checking this sheet to make sure they have a head teacher in each classroom will be easy to see. When hiring new employees, this helps see what positions are needed and available. The managers can type in what specific classes the employee has completed, what certificate they have, and if they are required to renew their certificate or not.

EXTERNAL VIEWS

Who would use: Employee, Manager

External View #4: Child Medical History Form

This view would show all the medical history for the child. It is important for the employees at the daycare to be able to quickly find medical information for a child in the case of an emergency or allergic reaction. Sorting through numerous files to find medical information for a child takes too long and needs to be expedited. When a parent logs into the child's account, they would be able to insert the child's allergies, their emergency contacts names and phone numbers in case of an emergency. Just like the Online Customer Form, a parent would be able to update this information whenever just like a Facebook or Instagram page.

Who would use: Employees, Manager, Parent or Guardian

External View #5: Materials Order Form

This view contains information about the materials the daycare needs to keep track of. When a teacher or manager logs into the tablet, they would be able to pull up a Materials Order form and insert Material and Product Names and the quantity of each needed. This form would then be submitted through the system so that the Manager can view it and order the items for the teacher and their classroom.

Who would use: Manager, Employee

External View #6: School Transportation View

This view contains information regarding the transportation that children use to and from the daycare. This information is important to keep track of the children and not release the child to the wrong parent. As a manager or employee logs into the system on the tablet, they would input the child's ID along with their first and last name so that they can bring up the child's account to view their parent or guardian that is given permission to pick them up and drop them off.

An employee can then take that information and match it with the parent or guardian's driver's license or ID so that we can keep the child safe.

EXTERNAL VIEWS

Who would use: Managers and employees that assist with the intake and release of children from the daycare will utilize this information.

External View #7: Parent Payment View

This view contains information about the payments a parent has made for their child at the daycare. This can be important for the daycare to keep track of to make sure they are getting the payments that are needed and that no parent is far behind. A manager would have access to logging into their daycare system and putting in the parent's ID and their full name in the search bar. This would bring up all of the information regarding the parent and more specifically, how much they paid on their last payment and what form of payment they used.

Who would use: Manager or Employee

External View #8: Employee Medical History View

This view will be used by managers to keep track of employee medical information such as health care providers and their related policy number. A manager would be able to log into the daycare system on a tablet to view the employees in the building. In a search bar, they would be able to put in the employee's id or their full name in order to pull up all of their important information, including their health care providers and insurance in case of an emergency.

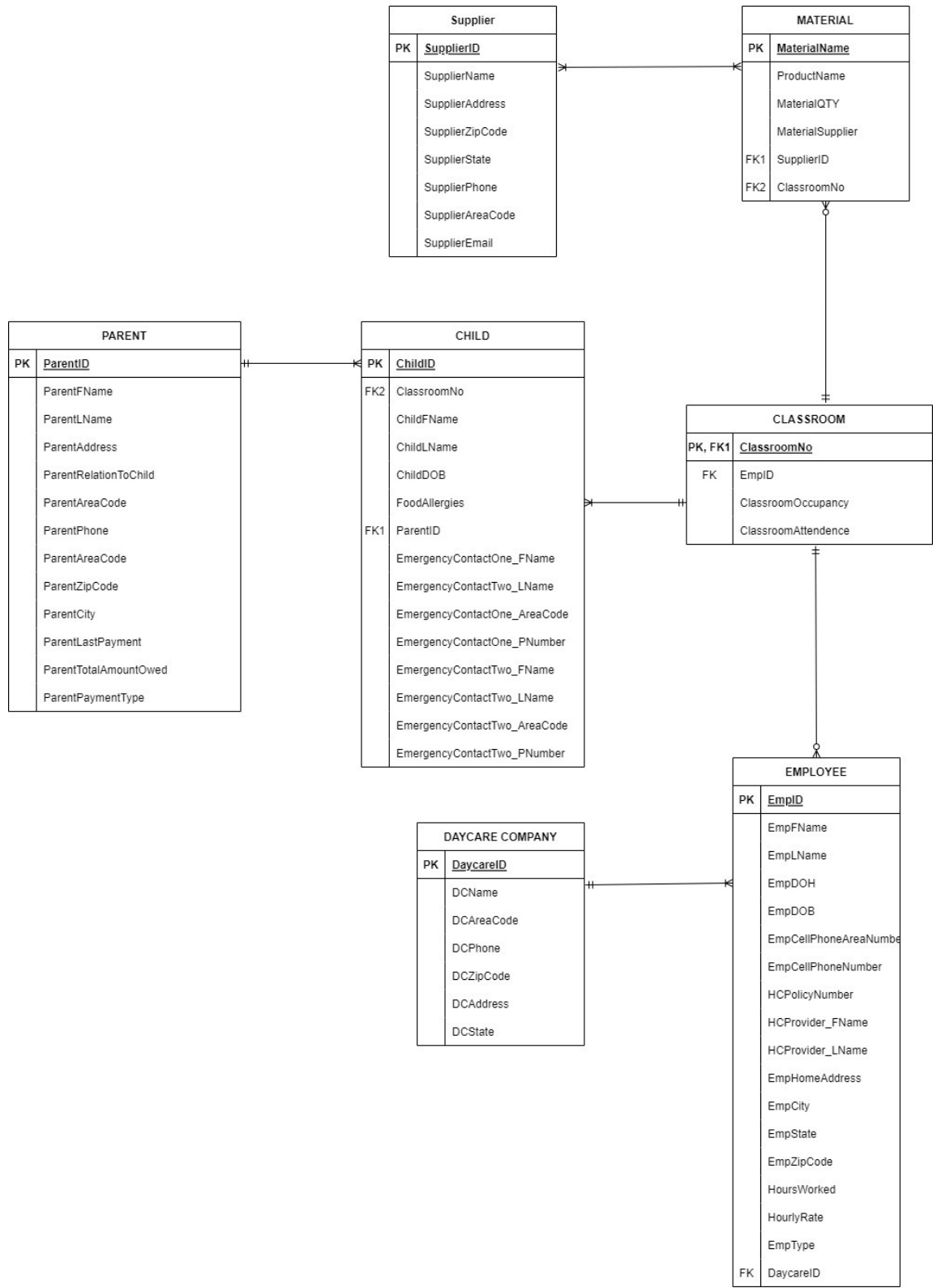
Who would use: Manager

External View #9: Classroom View

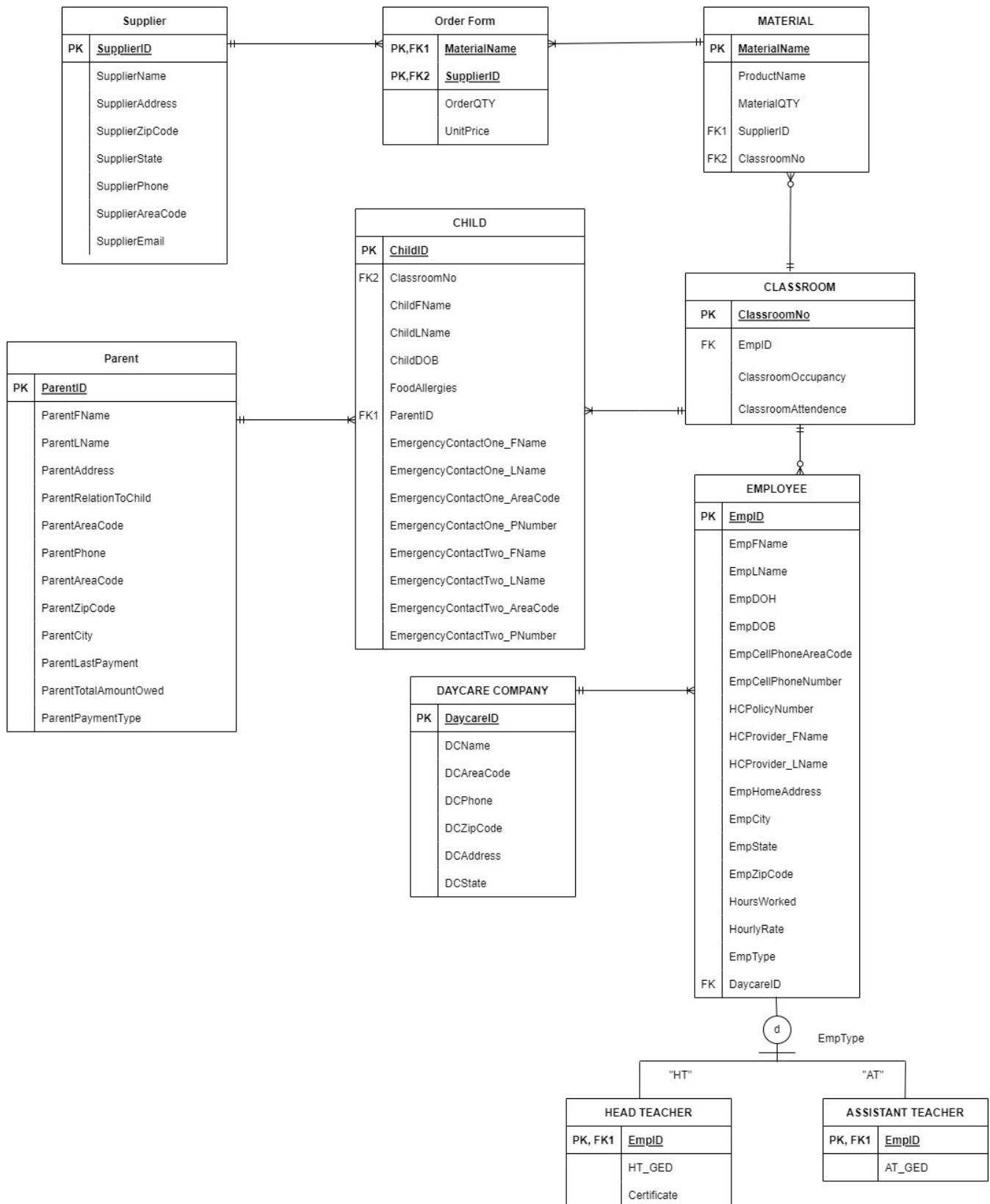
This view will be used by managers and employees to keep track of classroom information such as classroom number, the teacher associated with that classroom, how many students are in that classroom, and the total classroom occupancy to make sure the number of kids in the classroom does not exceed the maximum occupancy. Any employee would be able to log into their tablet using their credentials and search up a classroom by inputting the classroom number and view all of this information.

Who would use: Employee or Manager

CONCEPTUAL MODEL



INTERNAL MODEL





DATA DICTIONARY

Material:

1. MaterialName → VARCHAR2 (30)
2. ProductName → VARCHAR2 (50)
3. MaterialQTY → NUMBER (100)
4. MaterialSupplier → VARCHAR2 (50)

Supplier:

1. SupplierID → NUMBER (6)
2. SupplierName → VARCHAR2 (50)
3. SupplierAddress → VARCHAR2 (30)
4. SupplierZipCode → VARCHAR2 (10)
5. SupplierState → CHAR(2)
6. SupplierPhone → VARCHAR2 (10)
7. SupplierAreaCode → VARCHAR2 (5)
8. SupplierEmail → VARCHAR2 (50)

Parent:

1. ParentID → NUMBER (6)
2. ParentFName → VARCHAR2(30) NOT NULL
3. ParentLName → VARCHAR2(30) NOT NULL
4. ParentAddress → VARCHAR2(30)
5. ParentRelationToChild → VARCHAR2(20)
6. ParentPhone → VARCHAR2(10)
7. ParentAreaCode → VARCHAR2(5)
8. ParentZipCode → VARCHAR2(10)
9. ParentCity → VARCHAR2(30)
10. ParentLastPayment → DATE NULL,
11. ParentTotalAmountOwed → NUMBER(10,4) NULL,
12. ParentPaymentType → VARCHAR2(30) NULL,

Classroom:

1. ClassroomNo → NUMBER(6)
2. EmpID → NUMBER(6)
3. ClassroomOccupancy → NUMBER(2)
4. ClassroomAttendance → NUMBER(2)

Child:

1. ChildID → NUMBER (6)
2. ClassroomNo → NUMBER(6) NOT NULL
3. ChildFName → VARCHAR2 (30)
4. ChildLName → VARCHAR2 (30)
5. ChildDOB → DATE
6. FoodAllergies → VARCHAR2 (500)
7. ParentID → NUMBER (6)
8. EmergencyContactOne_FName → VARCHAR2 (30)
9. EmergencyContactOne_LName → VARCHAR2 (30)
10. EmergencyContactOne_AreaCode → VARCHAR2 (5)
11. EmergencyContactOne_PNumber → VARCHAR2 (10)
12. EmergencyContactTwo_FName → VARCHAR2 (30)
13. EmergencyContactTwo_LName → VARCHAR2 (30)
14. EmergencyContactTwo_AreaCode → VARCHAR2 (5)
15. EmergencyContactTwo_PNumber → VARCHAR2 (10)

Employee:

1. EmpID → NUMBER (6)
2. EmpFName → VARCHAR2 (30)
3. EmpLName → VARCHAR2 (30)
4. EmpDOH → DATE
5. EmpDOB → DATE
6. EmpCellPhoneAreaCode → VARCHAR2 (5)
7. EmpCellPhoneNumber → VARCHAR2 (10)
8. HCPolicyNumber → VARCHAR (15)
9. HCProvider_FName → VARCHAR2 (30)
10. HCProvider_LName → VARCHAR2 (30)
11. EmpHomeAddress → VARCHAR2 (30)
12. EmpCity → VARCHAR2 (40)
13. EmpState → CHAR(2)
14. EmpZipCode → VARCHAR2 (10)
15. HoursWorked → NUMBER (80)
16. HourlyRate → NUMBER(10,4)
17. EmpType → VARCHAR2 (30)



DATA DICTIONARY

Head Teacher:

1. EmpID → NUMBER(6)
2. HT_GED → CHAR(1)
3. Certificate → CHAR(1)

Assistant Teacher:

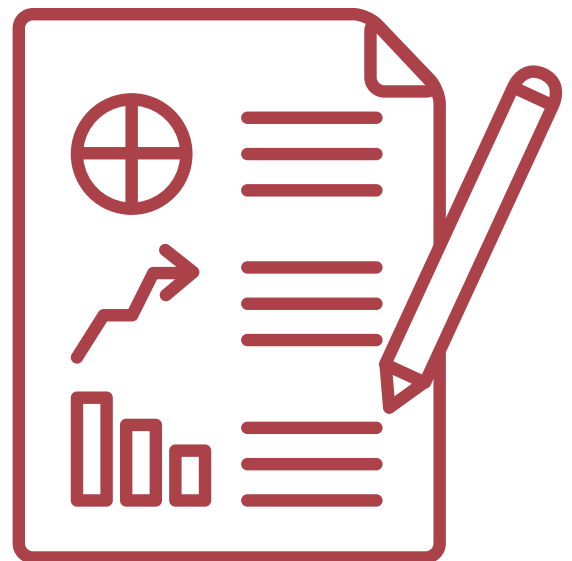
1. EmpID → NUMBER(6)
2. AT_GED → CHAR(1)

DayCareCompany:

1. DaycareID → NUMBER(6)
2. DCName → VARCHAR2(30)
3. DCAreaCode → VARCHAR2(5)
4. DCPhone → VARCHAR2(10)
5. DCZipCode → VARCHAR2(10)
6. DCAddress → VARCHAR2(30)
7. DCState → CHAR(2)

OrderForm:

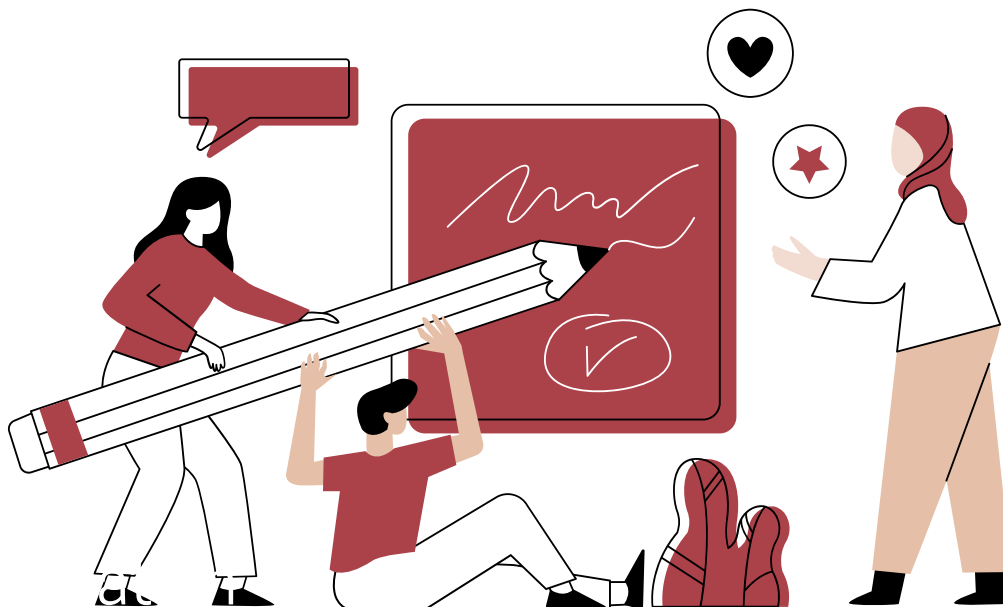
1. MaterialName → VARCHAR2(30)
2. SupplierID → NUMBER (6)
3. OrderQTY → NUMBER(3)
4. UnitPrice → NUMBER(8,2)



IMPLEMENTATION

Once we had all of our tables and attributes from our data modeling, we created our test data to put into the database. To create this test data, we created a row for each attribute of a table in excel and made up ten entries for each of these attributes; however, the Classroom table had a maximum of six entries for each attribute, as this made sense given that the daycare only has a total of six classrooms. We believe the most important tables are the Parent, Child, and Employee tables because they keep the daycare running and have the most essential attributes within them. Some problems we encountered while implementing the DDL were getting random errors where we had to figure out what was incorrect. We also had problems with making sure that the order we were inserting the tables in was correct based on restraints and references, and that when inserting our test data values it was done in a table that had the primary key before one with a foreign key.

When deciding on a database management system, our team chose to use Oracle over Access and this decision was made for one main reason. Overall, our team has more experience with Oracle and felt more comfortable in our abilities with using this as our DBMS over Access. Our familiarity with it made us think that it would make the implementation go smoother.



SQL Queries

```
CREATE INDEX ind_emp_city ON employee(empcity);
```

```
SELECT childfname || ' ' || childlname AS "Child name", parentfname || ' ' ||  
parentlname AS "Parent name", parentareacode || '-' || parentphone AS "Parent phone  
number", EmergencyContactOne_FName || ' ' || EmergencyContactOne_LName AS  
"Emergency Contact 1", EmergencyContactTwo_FName || ' ' ||  
EmergencyContactTwo_LName AS "Emergency Contact 2"  
FROM child  
JOIN parent USING(parentid)
```

Child name	Parent name	Parent phone number	Emergency Contact 1	Emergency Contact 2
Davis Hawkins	Chris Hawkins	213-316-3900	Sandra Diaz	Tony Vlachos
Jennifer Johnson	Marie Johnson	413-334-3899	Rob Cesteruino	Amber Mariano
Lake Reese	Jane Reese	213-855-9350	Nick Wilson	Russell Hantz
Richard Bankers	Frank Bankers	671-845-2149	James Frederick	Mariisa Grandson
Christina Andrews	James Andrews	312-567-2274	Mandy Jamney	Chris Arlison
Jacob Andrews	James Andrews	312-567-2274	Mandy Jamney	Chris Arlison
Renzee Klewin	Dawn Klewin	763-488-3992	Eileen Smithson	Ashley Benjamin
Mark Jefferson	Michelle Jefferson	238-746-7971	Killian Weber	Leslie Jackson
Raquel Martinez	Cassandra Martinez	213-547-2274	Ivan Lee	Christian Alessandro
Janison Drawbridge	Marybeth Drawbridge	671-544-2746	Chris Ann	Marybeth Mathews

This query will help with the transportation of the students to make sure they are released to their parents. It will support the school transportation view. It provides the parents name as well as phone number so if the parent is not there to pick up the child, they can be contacted to see which emergency contact they can be released to. An additional query could be quickly run to get the emergency contacts phone numbers, but it is assumed if a parent is not able to pick up the child, they will prepare for an emergency contact to come pick up the child.

```
SELECT empID, empfname|| ' ' || emplname AS "Employee name", hoursworked,  
to_char(hourlyrate,'$99.99') AS "Hourly Rate", to_char((hoursworked*hourlyrate),  
'$999,999.99') AS "Pay for period"  
FROM employee
```

EMPID	Employee name	HOURSWORKED	Hourly Rate	Pay for period
209349	Andrea Gills	37	\$13.00	\$481.00
827494	Rudy Boesh	40	\$11.00	\$440.00
579234	Susan Hawk	24	\$15.00	\$360.00
549842	Kelly Wentworth	12	\$12.00	\$144.00
798654	Jeremy Collins	32	\$16.00	\$512.00
123678	Tyson Apostol	15	\$14.00	\$210.00
539825	Benjamin Wade	25	\$12.00	\$300.00
184753	John Cochran	29	\$12.00	\$348.00
109845	Martin Cheng	36	\$15.00	\$540.00
204975	Parvati Shallow	38	\$12.00	\$456.00

This query will help Toddler Time keep track of employees hours worked and will support the employee time sheet view. In addition to hours worked, it will also show the employees' pay rates as well as how much they have made for the period.

```
SELECT childfname || ' ' || childlname AS "Child name", foodallergies
FROM child
WHERE foodallergies IS NOT NULL
```

Child name	FOODALLERGIES
Jennifer Johnson	Peanuts
Christine Andrews	Strawberries
Kenzie Klewin	Peanuts
Mark Jefferson	Tree Nuts
Raquel Martinez	Peanuts, Tree Nuts
Janison Drawbridge	Strawberries

This query will help support the child's medical history view so employees know which students have allergies when having snacks. It will be crucial to identify what kind of allergic reaction a student might be having in a quick manner in the case of an emergency which this query can do.

```
SELECT materialname, orderqty, to_char(unitprice, '$999.99') AS "Unit price",
to_char(orderqty*unitprice, '$999,999.99') AS "Total cost", (SELECT
to_char(SUM(orderqty*unitprice), '$999,999.99') FROM orderform) AS "Total Material
Cost", ROUND((orderqty*unitprice)/(SELECT SUM(orderqty*unitprice) FROM
orderform)*100, 2) AS "Percent of Total Material Cost"
FROM orderform
```

MATERIALNAME	ORDERQTY	Unit price	Total cost	Total Material Cost	Percent of Total Material Cost
Diapers	150	\$1.50	\$225.00	\$1,633.00	13.78
Animal Crackers	200	\$76	\$152.00	\$1,633.00	9.31
Wipes	300	\$23	\$69.00	\$1,633.00	4.23
Blankets	100	\$11.87	\$1,187.00	\$1,633.00	72.69

This query will show Toddler Time how much they are spending on each material as well as the percentage of each material cost out of the total material cost. This will help identify where they may be over spending and if they should look to find new suppliers. This query will support the material order form.

```
SELECT parentlname, parentfname, to_char(parenttotalamountowed, '$999.99') AS
"Amount owed", parentlastpayment, parentpaymenttype
FROM parent
```

PARENTLNAME	PARENTFNAME	Amount owed	PARENTLASTPAYMENT	PARENTPAYMENTTYPE
Hawkins	Chris	\$365.43	12-Mar-2022	Discover Credit Card
Johnson	Marie	\$134.28	26-Feb-2022	Cash
Reese	Jane	\$90.67	23-Jan-2022	Check
Bankers	Frank	\$60.75	20-Apr-2022	American Express
Klewin	Dawn	\$259.90	29-Mar-2022	Mastercard
Andrews	James	\$34.56	01-Apr-2022	Cash
Jefferson	Mitchell	\$603.40	23-Jan-2022	Check
Martinez	Cassandra	\$16.42	23-Mar-2022	Cash
Drawbridge	Marybeth	\$76.34	04-Apr-2022	American Express

This query will help support the parent payment view to make sure parents are staying up to date with their payments. It is important to make sure they pay on time and if they are getting behind on payments, see if a payment plan may be utilized.

```
SELECT emplname, empfname, HCprovider_Fname ||' '||HCprovider_lname AS "Health
Care Provider", hcpolicynumber
FROM employee
```

EMPLNAME	EMPFNAME	Health Care Provider	HCPOLICYNUMBER
Gills	Andrea	Bob Crowley	394724998
Boesh	Rudy	Vecepia King	1032284756578
Hawk	Susan	Tina Wesson	982373
Wentworth	Kelly	Colby Donaldson	10176732
Collins	Jeremy	Richard McKinnith	2833946529
Apostal	Tyson	Mike Holloway	7283942
Wade	Benjamin	Mitch Ice	3201930
Cochran	John	Yul Kwon	4927402
Cheng	Martin	Todd Herzog	90193284
Shallow	Parvati	James Clement	6048239

This query will support the employee medical history view to keep all the employees health care providers and policy numbers in a singular place in case there is an emergency of one of the employees.

```
SELECT classroomno, emplname, empfname, classroomoccupancy, COUNT(childid) AS
"Children in classroom"
FROM classroom
JOIN employee USING(empid)
JOIN child USING (classroomno)
GROUP BY classroomno, emplname, empfname, classroomoccupancy;
```

CLASSROOMNO	EMPLNAME	EMPFNAME	CLASSROOMOCCUPANCY	Children in classroom
100000	Boesh	Rudy	10	2
300000	Wentworth	Kelly	13	2
400000	Hawk	Susan	16	1
500000	Apostal	Tyson	11	1
600000	Collins	Jeremy	17	2
200000	Gills	Andrea	14	2

This query will support the classroom view to keep track of the number of children assigned to each classroom as well as who is in charge of that classroom. It will help ensure there are never more children in the table than the maximum occupancy.

```
SELECT emplname, empfname, certificate
FROM head_teacher
JOIN employee USING(empid)
WHERE certificate='R'
```

EMPLNAME	EMPFNAME	CERTIFICATE
Wentworth	Kelly	R

This query will support the teacher certificate progress sheet to show which employees need to renew their certificate. It is important to make sure the employees stay up to date with their certifications to stay as a head teacher.

```

SELECT dcname, dcaddress, dczipcode, dcstate, suppliername, supplieraddress,
supplierzipcode, supplierstate
FROM daycarecompany
JOIN employee USING(daycareid)
JOIN classroom USING(empid)
JOIN material USING(classroomno)
JOIN supplier USING(supplierid)

```

DCNAME	DCADDRESS	DCZIPCODE	DCSTATE	SUPPLIERNAME	SUPPLIERADDRESS	SUPPLIERZIPCODE	SUPPLIERSTATE
Toddler Time	412 Tervillegers Run	45039	OH	Quill	2189 Creek Road	25485	OH
Toddler Time	412 Tervillegers Run	45039	OH	DollarDays	34 Ridgeway Lane	73940	IN
Toddler Time	412 Tervillegers Run	45039	OH	Gordon Food Services	65 Food Service Drive	74538	OH
Toddler Time	412 Tervillegers Run	45039	OH	Walmart	256 Hickory Lane	29467	OH
Toddler Time	412 Tervillegers Run	45039	OH	Walmart	256 Hickory Lane	29467	OH

This query will help support the materials order form to show the supplier and supplier address as well as the address of ToddlerTime so the company can quickly place orders and know where they are coming from. It will also help in case an order is incorrect and needs to be sent back.

```

SELECT ChildFName, ChildLName, MaterialName, ProductName
FROM child
JOIN classroom USING(ClassroomNo)
JOIN material USING(ClassroomNo)
JOIN orderform USING(MaterialName)
WHERE MaterialName LIKE 'Animal Crackers';

```

CHILDNAME	CHILDNAME	MATERIALNAME	PRODUCTNAME
Richard	Barkers	Animal Crackers	Austin

This query will help parents see information about the food their children are eating. The employees at the daycare center will be able to quickly search for information about the manufacturer of the child's food.

SUMMARY



Before implementing the database for this daycare center, the information stored at Toddler Time in Maineville, Ohio was operating on a file-based system. All employee clocking in and clocking out procedures took place on a file-based punch card system. All information stored and needed about the children at the daycare center was stored in file folders in the daycare office. The file-based system being used can become problematic due to the lack of efficiency, organization, and storage capacity of tracking all daycare business processes on substantial amounts of paper.

Information stored about the children that attend the daycare center needs to be pulled quickly and correctly each time to ensure the safety and security of the children at the daycare. Information about children such as their food allergies, emergency contacts, and parent information can be very important to acquire quickly and correctly especially when an emergency situation occurs. The query created to retrieve information about all children with food allergies will allow all employees at the daycare to ensure the safety of children during each meal. The amount of time as well as the room for error is significantly decreased when a query is able to retrieve child food allergy information as opposed to rustling through numerous amounts of papers to determine which children may be allergic to a specific snack. Additional queries aid in the retrieval of employee payroll information to improve operations of the daycare staff and allows for quicker administrative processes. Integrating a database system for the daycare can also greatly aid in the efficient retrievals and calculations of material costs and other daycare expenses. This database system will not only promote and ensure the safety of children at the daycare by building integrity to the information gathering system, but also improve the efficiency and ease of administrative processes at the daycare.

```

CREATE TABLE Supplier
(SupplierID NUMBER(6) PRIMARY KEY,
SupplierName VARCHAR2(50) NOT NULL,
SupplierAddress VARCHAR2 (30),
SupplierZipCode VARCHAR2 (10),
SupplierState CHAR(2),
SupplierPhone VARCHAR2 (10) NOT NULL,
SupplierAreaCode VARCHAR2 (5),
SupplierEmail VARCHAR2 (50));

INSERT INTO supplier
VALUES(859254, 'Walmart', '256 Hickory Lane', 29467, 'OH', '859-9463', '965',
'questions@walmart.com');

INSERT INTO supplier
VALUES(918323, 'Gordon Food Services', '65 Food Service Drive', 74538, 'OH', '375-2628',
'546', 'customerinquiries@gordonfoodsolutions.com');

INSERT INTO supplier
VALUES(957347, 'Quill', '2189 Creek Road', 25485, 'OH', '213-3628',
'295', 'supplierhelp@quill.com');

INSERT INTO supplier
VALUES(573958, 'DollarDays', '34 Ridgeway Lane', 73940, 'IN', '265-2378', '221',
'customerservice@dollardays.com');

CREATE TABLE DayCareCompany
(DaycareID NUMBER(6) PRIMARY KEY,
DCName VARCHAR2(30),
DCAreaCode VARCHAR2(5),
DCPhone VARCHAR2(10),
DCZipCode VARCHAR2(10),
DCAddress VARCHAR2(30),
DCState CHAR(2));

INSERT INTO DayCareCompany
VALUES(450390, 'Toddler Time', 513, '398-2918', 45039, '412 Terwillegers Run', 'OH');

```

```

CREATE TABLE Employee
(EmpID NUMBER(6) PRIMARY KEY,
EmpFName VARCHAR2(30) NOT NULL,
EmpLName VARCHAR2(30) NOT NULL,
EmpDOH DATE NOT NULL,
EmpDOB DATE NOT NULL,
EmpCellPhoneAreaCode VARCHAR2(5) NOT NULL,
EmpCellPhoneNumber VARCHAR2(10) NOT NULL,
HCPolicyNumber VARCHAR2(15) NOT NULL,
HCProvider_FName VARCHAR2(30),
HCProvider_LName VARCHAR2(30) NOT NULL,
EmpHomeAddress VARCHAR2(30) NOT NULL,
EmpCity VARCHAR2(40) NOT NULL,
EmpState CHAR(2) NOT NULL,
EmpZipCode VARCHAR2(10) NOT NULL,
HoursWorked NUMBER(2) NOT NULL,
HourlyRate NUMBER(10,4) NOT NULL,
EmpType VARCHAR2(30) NOT NULL,
DaycareID NUMBER(6) NOT NULL,
CONSTRAINT employee_daycareid_fk FOREIGN KEY(daycareid) REFERENCES
daycarecompany(daycareid));

INSERT INTO employee
VALUES(209349, 'Andrea', 'Gills', '13-Feb-2019', '23-Sep-1984', '937', '364-8896',
394724998, 'Bob', 'Crowley', '25 Pickett Lane', 'Maineville', 'OH', 45039, 37, 13.00,
'Head', 450390);

INSERT INTO employee
VALUES(827494, 'Rudy', 'Boesh', '03-Jan-2021', '14-Jan-1999', '955', '644-2674',
1032284756578, 'Vecepia', 'King', '4588 Orchid Lane', 'Lebanon', 'OH', 45036, 40, 11.00,
'Assistant', 450390);

INSERT INTO employee
VALUES(579234, 'Susan', 'Hawk', '03-Jan-2016', '12-Jun-1995', '937', '546-8223', 982373,
'Tina', 'Wesson', '76003 Astonia Avenue', 'Mason', 'OH', 45040, 24, 15.00, 'Head', 450390);

INSERT INTO employee
VALUES(549842, 'Kelly', 'Wentworth', '29-Nov-2020', '07-Jan-1973', '556', '238-9968',
10176732, 'Colby', 'Donaldson', '89 Chester Way', 'Miamisburg', 'OH', 45342, 12, 12.00,
'Head', 450390);

```

```

INSERT INTO employee
VALUES(798654, 'Jeremy', 'Collins', '31-Jul-2012', '12-Oct-1989', '955', '745-8265',
2833946529, 'Richard', 'McKinnith', '4554 Chennith Street', 'Mason', 'OH', 45040, 32, 16.00,
'Head', 450390);

INSERT INTO employee
VALUES(123678, 'Tyson', 'Apostal', '27-Aug-2018', '05-May-2000', '342', '637-9976', 7283942,
'Mike', 'Holloway', '2712 Rollson Avenue', 'Maineville', 'OH', 45039, 15, 14.00, 'Head',
450390);

INSERT INTO employee
VALUES(539825, 'Benjamin', 'Wade', '22-Nov-2021', '17-Nov-1969', '937', '335-8365', 3201930,
'Mitch', 'Ice', '4839 Rainy Way', 'Maineville', 'OH', 45039, 25, 12.00, 'Assistant', 450390);

INSERT INTO employee
VALUES(184753, 'John', 'Cochran', '17-Dec-2019', '25-Mar-1987', '937', '197-2265', 4927402,
'Yul', 'Kwon', '1 Park Place', 'Oregonia', 'OH', 45054, 29, 12.00, 'Assistant', 450390);

INSERT INTO employee
VALUES(109845, 'Martin', 'Cheng', '24-Apr-2017', '21-Feb-1995', '937', '647-3378', 90193284,
'Todd', 'Herzog', '49399 Sunnyside Avenue', 'Oregonia', 'OH', 45054, 36, 15.00, 'Head',
450390);

INSERT INTO employee
VALUES(204975, 'Parvati', 'Shallow', '16-Feb-2020', '28-Apr-1977', '955', '265-7738', 6048239,
'James', 'Clement', '67 Clermont Road', 'Waynesville', 'OH', 45068, 38, 12.00, 'Assistant',
450390);

CREATE TABLE Classroom
(ClassroomNo NUMBER(6) PRIMARY KEY,
EmpID NUMBER(6),
ClassroomOccupancy NUMBER(2),
CONSTRAINT classroom_emp_id_fk FOREIGN KEY (EmpID) REFERENCES Employee (EmpID));

INSERT INTO Classroom
VALUES(100000,827494,10);

INSERT INTO Classroom
VALUES(200000,209349,14);

INSERT INTO Classroom
VALUES(300000,549842,13);

```

```

INSERT INTO Classroom
VALUES(400000,579234,16);

INSERT INTO Classroom
VALUES(500000,123678,11);

INSERT INTO Classroom
VALUES(600000,798654,17);

CREATE TABLE Material
(MaterialName VARCHAR2(30) PRIMARY KEY,
ProductName VARCHAR2(50) NULL,
MaterialQTY NUMBER(3) NOT NULL,
SupplierID NUMBER(6) NOT NULL,
classroomno NUMBER(6) NOT NULL,
CONSTRAINT material_classroomno_fk FOREIGN KEY (classroomno) REFERENCES
classroom(classroomno),
CONSTRAINT SupplierID_fk FOREIGN KEY (SupplierID) REFERENCES Supplier (SupplierID));

INSERT INTO material
VALUES('Diapers', 'Huggies', 200, 859254, 500000);

INSERT INTO material
VALUES('Animal Crackers', 'Austin', 100, 918323, 400000);

INSERT INTO material
VALUES('Wipes', 'Huggies', 100, 859254, 500000);

INSERT INTO material
VALUES('Hand Sanitizer', 'Purell', 50, 957347, 200000);

INSERT INTO material
VALUES('Blankets', 'Wolf', 100, 573958, 100000);

CREATE TABLE Parent
(ParentID NUMBER(6) PRIMARY KEY,
ParentFName VARCHAR2(30) NOT NULL,
ParentLName VARCHAR2(30) NOT NULL,
ParentAddress VARCHAR2(30) NOT NULL,
ParentRelationToChild VARCHAR2(20),
ParentPhone VARCHAR2(10) NOT NULL,
ParentAreaCode VARCHAR2(5),
ParentZipCode VARCHAR2(10),

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ParentCity VARCHAR2(30),
ParentLastPayment DATE,
ParentTotalAmountOwed NUMBER(10,4),
ParentPaymentType VARCHAR2(30));

INSERT INTO parent
VALUES(294769, 'Chris', 'Hawkins', '345 Thomson Lane', 'Father', '316-3900', '213', 73993,
'Little Hill', '12-Mar-2022', 365.43, 'Discover Credit Card');

INSERT INTO parent
VALUES(956489, 'Marie', 'Johnson', '3210 Cherry Lane Apt 203', 'Guardian', '334-3899', '413',
98047, 'Big Rock', '26-Feb-2022', 134.28, 'Cash');

INSERT INTO parent
VALUES(672957, 'Jane', 'Reese', '22 Greyson Way', 'Mother', '855-9350', '213', 73993, 'Little
Hill', '23-Jan-2022', 90.67, 'Check');

INSERT INTO parent
VALUES(884639, 'Frank', 'Bankers', '2859 Wooster Way', 'Father', '845-2149', '671', 11873,
'Cheyenne', '20-Apr-2022', 60.75, 'American Express');

INSERT INTO parent
VALUES(376731, 'Dawn', 'Klewin', '7225 Northwoods Drive', 'Mother', '488-3992', '765', 93548,
'Grand City', '29-Mar-2022', 259.90, 'Mastercard');

INSERT INTO parent
VALUES(227699, 'James', 'Andrews', '766 Stacy Lane', 'Father', '567-2274', '312', 17290,
'Pebble Village', '01-Apr-2022', 34.56, 'Cash');

INSERT INTO parent
VALUES(587751, 'Mitchell', 'Jefferson', '367 Candal Street', 'Father', '746-7371', '228',
27547, 'Jones', '23-Jan-2022', 603.40, 'Check');

INSERT INTO parent
VALUES(143388, 'Cassandra', 'Martinez', '7 Raupp Street', 'Mother', '547-2274', '213', 73993,
'Little Hill', '23-Mar-2022', 16.42, 'Cash');

INSERT INTO parent
VALUES(284940, 'Marybeth', 'Drawbridge', '26 Lessie Drive', 'Guardian', '544-2746', '671',
93548, 'Grand City', '04-Apr-2022', 76.34, 'American Express');

```

```

CREATE TABLE Child
(ClassroomNo NUMBER(6) NOT NULL,
ChildID NUMBER(6) PRIMARY KEY,
ChildFName VARCHAR2(30) NOT NULL,
ChildLName VARCHAR2(30) NOT NULL,
ChildDOB DATE NOT NULL,
FoodAllergies VARCHAR2(500),
ParentID NUMBER(6) NOT NULL,
EmergencyContactOne_FName VARCHAR2(30) NOT NULL,
EmergencyContactOne_LName VARCHAR2(30) NOT NULL,
EmergencyContactOne_AreaCode VARCHAR2(5) NOT NULL,
EmergencyContactOne_PNumber VARCHAR2(10) NOT NULL,
EmergencyContactTwo_FName VARCHAR2(30),
EmergencyContactTwo_LName VARCHAR2(30),
EmergencyContactTwo_AreaCode VARCHAR2(5),
EmergencyContactTwo_PNumber VARCHAR(10),
CONSTRAINT ParentID_fk FOREIGN KEY (ParentID) REFERENCES Parent (ParentID),
CONSTRAINT child_classroomno_fk FOREIGN KEY (classroomno) REFERENCES
classroom(classroomno));

INSERT INTO Child
VALUES(300000,336584,'Davie','Hawkins','04-Nov-
2020',NULL,294769,'Sandra','Diaz','572','876-0720','Tony','Vlachos','560','220-2840');

INSERT INTO Child
VALUES(600000,533784,'Jennifer','Johnson','23-Sep-
2014','Peanuts',956489,'Rob','Cesternino','901','243-0608','Amber','Mariano','375','694-
0208');

INSERT INTO Child
VALUES(200000,659368,'Lake','Reese','17-Feb-2021',NULL,672957,'Nick','Wilson','847','837-
3057','Russell','Hantz','361','960-1922');

INSERT INTO Child
VALUES(400000,284568,'Richard','Bankers','18-Feb-
2019',NULL,884639,'James','Frederick','403','822-9078','Marissa','Grandson','388','391-
9276');

INSERT INTO Child
VALUES(100000,836673,'Christine','Andrews','01-Apr-
2021','Strawberries',227699,'Mandy','Jimney','607','749-
7399','Chris','Arikson','467','987-2391');

```

```
INSERT INTO Child
VALUES(600000,172978,'Jacob','Andrews','01-Dec-
2015',NULL,227699,'Mandy','Jimney','607','749-7399','Chris','Arikson','467','987-2391');
```

```
INSERT INTO Child
VALUES(500000,337468,'Kenzie','Klewin','10-Jul-
2018','Peanuts',376731,'Eileen','Smithson','877','838-
2845','Ashley','Benjamin','947','987-1754');
```

```
INSERT INTO Child
VALUES(100000,283365,'Mark','Jefferson','27-Sep-2021','Tree
Nuts',587751,'Killian','Weber','436','634-2740','Leslie','Jackson','366','836-7365');
```

```
INSERT INTO Child
VALUES(200000,865678,'Raquel','Martinez','29-Jul-2019','Peanuts, Tree
Nuts',143388,'Jeon','Lee','745','538-3611','Christian','Allesandro','634','876-1342');
```

```
INSERT INTO Child
VALUES(300000,332643,'Janison','Drawbridge','11-May-
2018','Strawberries',284940,'Chris','Ann','613','630-
6271','Marybeth','Matthews','378','274-3722');
```

```
CREATE TABLE Head_Teacher
(EmpID NUMBER(6) PRIMARY KEY,
HT_GED CHAR(1) NOT NULL,
Certificate CHAR(1) NOT NULL,
CONSTRAINT head_teacher_fk FOREIGN KEY (EmpID) REFERENCES Employee(EmpID));
```

```
INSERT INTO head_teacher
VALUES (209349, 'Y', 'Y');
```

```
INSERT INTO head_teacher
VALUES (579234, 'Y', 'Y');
```

```
INSERT INTO head_teacher
VALUES (549842, 'Y', 'R');
```

```
INSERT INTO head_teacher
VALUES (798654, 'Y', 'Y');
```

```
INSERT INTO head_teacher
VALUES (123678, 'Y', 'Y');
```



```

INSERT INTO head_teacher
VALUES (109845, 'Y', 'Y');

CREATE TABLE assistant_teacher
(EmpID NUMBER(6) PRIMARY KEY,
AT_GED CHAR(1) NOT NULL,
CONSTRAINT assistant_teacher_fk FOREIGN KEY (EmpID) REFERENCES Employee(EmpID));

INSERT INTO assistant_teacher
VALUES (827494, 'Y');

INSERT INTO assistant_teacher
VALUES (539825, 'Y');

INSERT INTO assistant_teacher
VALUES (184753, 'Y');

INSERT INTO assistant_teacher
VALUES (204975, 'Y');


CREATE TABLE OrderForm
(Materialname VARCHAR2(30),
Supplierid NUMBER(6),
OrderQTY NUMBER(6),
UnitPrice NUMBER(10,4),
CONSTRAINT OrderForm_MaterialName_fk FOREIGN KEY (MaterialName) REFERENCES
Material(MaterialName),
CONSTRAINT OrderForm_SupplierID_fk FOREIGN KEY (SupplierID) REFERENCES
Supplier(SupplierID),
CONSTRAINT OrderForm_MatName_SupID_pk PRIMARY KEY(MaterialName, SupplierID));

INSERT INTO OrderForm
VALUES('Diapers',859254,150,1.50);

INSERT INTO OrderForm
VALUES('Animal Crackers',918323,200,0.76);

INSERT INTO OrderForm
VALUES('Wipes',859254,300,0.23);

INSERT INTO OrderForm
VALUES('Blankets',573958,100,11.87);

```