

# ODK Tables

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## Motivations

- Mobile as platform for data management
  - Available to 90% of the world population and 80% of population living in rural areas
- Mobile-to-Mobile data communication
  - Addition and query to the database through SMS/GPRS

## Interactive Demo

What would you name your child?

Send SMS to 206-962-0964

### 1) Female Child

- @child +n YOUR\_CHILD\_NAME
- Ex) @child +n Mary

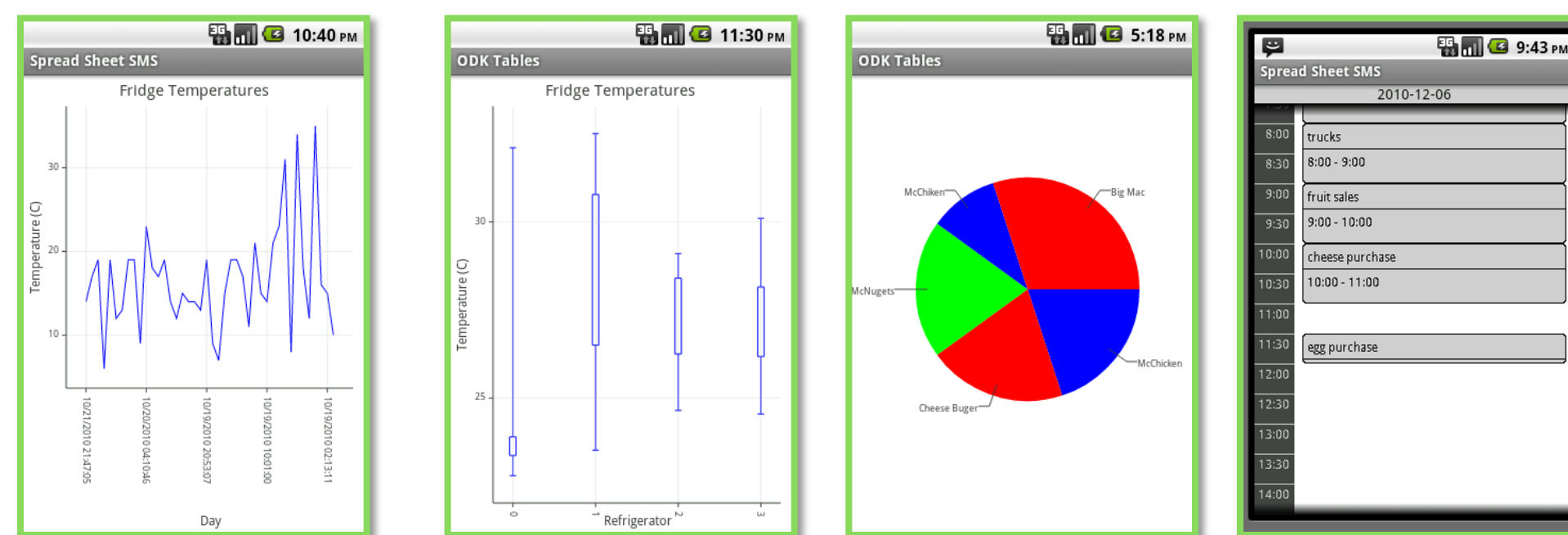
### 2) Male Child

- @child YOUR\_CHILD\_NAME
- Ex) @child Joe

## Design & Features

- Cloud database on a smartphone
- Managing data using table model
- Transferring data through SMS

## Visualization



## Organizing Table

### Indexing

### Collection-View

## Access Control

- Read/Write groups
- Password protected
- Filters SMS additions and queries by access groups and matching passwords

## Import/Export

- CSV import/export to the local storage
- Backup and restore from cloud database

## Use Cases

### Data Collection Only

#### Survey

Q: What is your favorite coffee?

A: @Coffee {Americano, Latte, Cappuccino, Mocha}

### Classroom

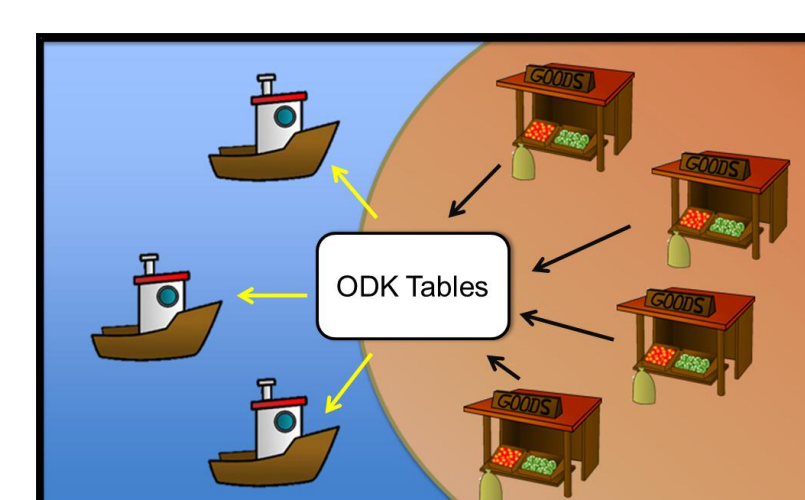


Replacing clickers in INFO200 class (30-45 students):

- Yes/No
- Multiple Choice
- Free Answer

### Data Collection and Dissemination

#### Market Place



Replicated a study from The Quarterly Economic Journal. The price table that fishermen can make query for prices while at sea, and market agents to update prices info.

#### Assign Tasks



Manager assigning tasks to workers using SMS. Workers view the tasks on ODK Tables.

