SQL SERVER 2016 Project  
House Utility Service Provider Database

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horizontal line

# Project Scenario

You have to design a database normalized to 3NF based on the description below.

A company provides various utility services like electric repair, plumbing, insect/mouse control etc.

The company has a pool of workers in agreement based on working skills and experience in certain work areas. Each worker works at an hourly pay rate.

When a customer creates an order for service, a set of workers are contacted and assigned for the service. After the service is completed the customer is billed and workers' payment is calculated.

For a whole day's work 10-hour payment is charged. Work start time is at 10:00AM. Work completion time must be kept so that worker payment can be calculated accurately.

A sample data is available for better understanding

Worker record

|  |  |  |  |
| --- | --- | --- | --- |
| **Worker Name** | **Work Area** | **Pay Rate** | **Phone** |
| Rahmat Ali | Plumbing, Pipe fitting | 120.00 | 01934675987 |
| Abul Kashem | Electrical works | 120.00 | 01934612612 |
| Azad Ahmed | General labor, insect control | 90.00 | 01751123123 |

Work contract record

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Customer | Address | Work area | Work description | Start date | End Date/time | Workers |
| 1 | Rahmatullah Muzahid | 12, Gulshan-1 | Plumbing | Swage pipe replacement | 2020-12-01 | 2020-12-04 12:30 PM | Rahmat Ali, Mannan Mia, Sumon |
| 2 | Abul Kashem | 45, Mirpur-13 | Electric works | Garage electric wiring | 2020-12-01 | 2020-12-01 | Abul Kashem, Asgar Ali |

Worker payment

|  |  |  |  |
| --- | --- | --- | --- |
| Work id | Worker | Total work hour | Total payable |
| 1 | Rahmat Ali | 32.5 | 3900.00 |
| 1 | Mannan Mia | 32.5 | 3250.00 |
| 1 | Sumon | 32.5 | 2925.00 |

## Some key implementation requirements:

* A worker is to be inserted with skills/experience using procedure
* New work is to be inserted with workers using procedure
* A procedure to set a work to be completed and the procedure must complete workers' payment.
* A function to get a work details with worker list