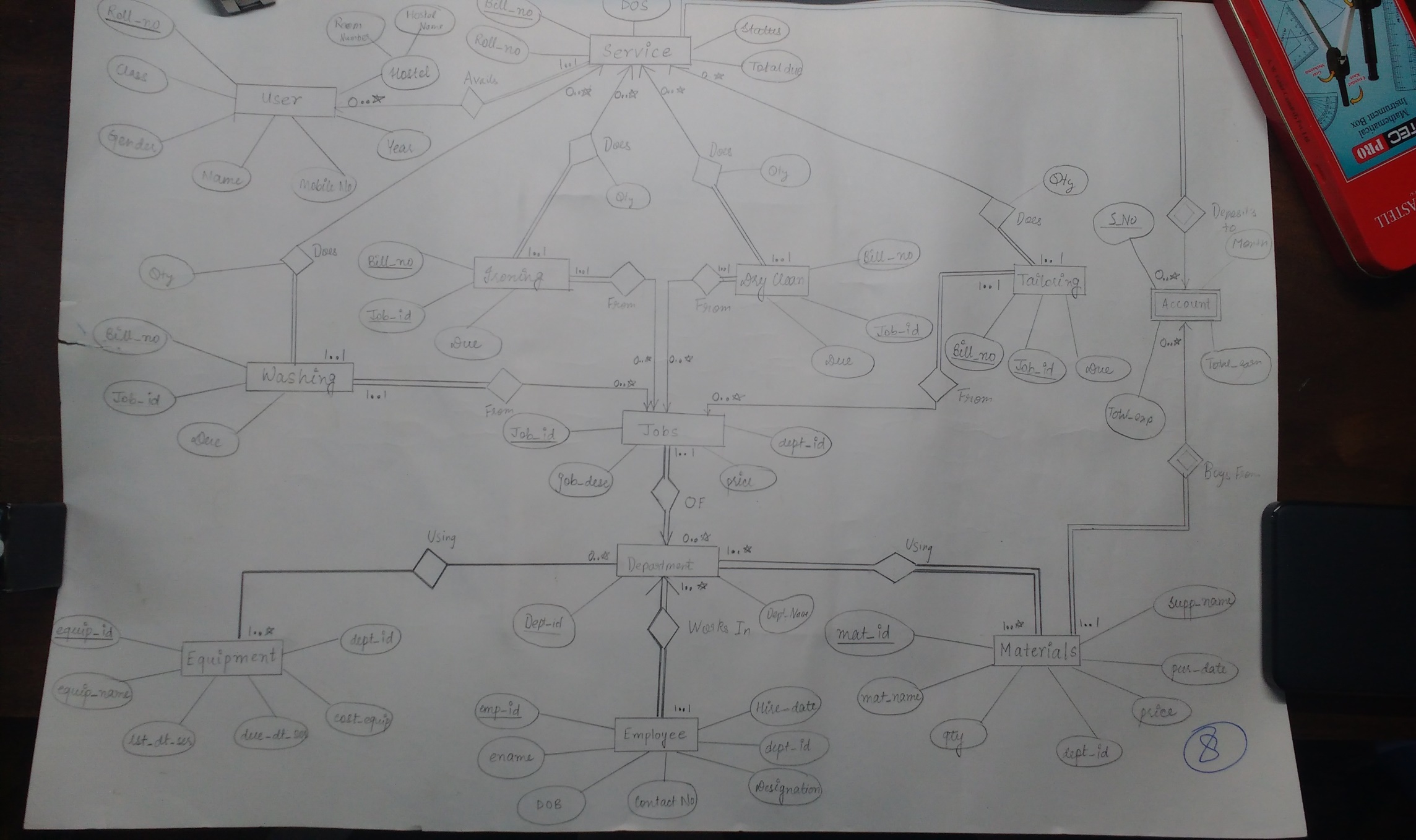
**ER DIAGRAM**



**TABLES**

|  |  |  |
| --- | --- | --- |
| ***Table: user\_shop*** | | |
| **Field** | **Datatype** | **Constraint** |
| roll\_no | number(10) | Primary key |
| name | varchar(20) | Not Null |
| gender | varchar(2) | check constraint,should either be ‘M’ or ‘F’ |
| class | varchar(3) | check constraint,should either be ‘ME’ or ‘BE’ |
| year | number(2) | Not Null |
| hostel\_name | varchar(5) | Not Null |
| room\_no | varchar(6) | Not Null |
| mobile\_no | number(12) | Not Null |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* services** | | |
| **Field** | **Datatype** | **Constraint** |
| bill\_no | number | Primary key |
| roll\_no | number(10) | Foreign key,refers user\_shop(roll\_no) on delete set null |
| dos | date | Not Null |
| status | varchar(5) | should either be ‘NR’ or ‘R’ and default 'NR' |
| total\_due | number | Default 0 |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* department** | | |
| **Field** | **Datatype** | **Constraint** |
| dept\_id | number(10) | Primary key |
| dept\_name | varchar(20) | Not Null |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* jobs** | | |
| **Field** | **Datatype** | **Constraint** |
| job\_id | number(10) | Primary key |
| job\_desc | varchar(20) | Not Null |
| price | number(10) | Not Null |
| dept\_id | number(10) | Foreign key,references department(dept\_id) |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* washing** | | |
| **Field** | **Datatype** | **Constraint** |
| bill\_no | number(10) | Foreign key,references services(bill\_no) |
| job\_id | number(10) | Foreign key,references jobs(job\_id) |
| qty\_id | number | Not Null |
| due | number | default 0 |
| primary key(bill\_no,job\_id)) | | |
|  |  |  |
|  |  |  |
| ***Table:* ironing** | | |
| **Field** | **Datatype** | **Constraint** |
| bill\_no | number(10) | Foreign key,references services(bill\_no) |
| job\_id | number(10) | Foreign key,references jobs(job\_id) |
| qty\_id | number | Not Null |
| due | number | default 0 |
| primary key(bill\_no,job\_id) | | |
|  |  |  |
|  |  |  |
| ***Table:* dry\_clean** | | |
| **Field** | **Datatype** | **Constraint** |
| bill\_no | number(10) | Foreign key,references services(bill\_no) |
| job\_id | number(10) | Foreign key,references jobs(job\_id) |
| qty\_id | number | Not Null |
| due | number | default 0 |
| primary key(bill\_no,job\_id) | | |
|  |  |  |
|  |  |  |
| ***Table:* tailoring** | | |
| **Field** | **Datatype** | **Constraint** |
| bill\_no | number(10) | Foreign key,references services(bill\_no) |
| job\_id | number(10) | Foreign key,references jobs(job\_id) |
| qty\_id | number | Not Null |
| due | number | default 0 |
| primary key(bill\_no,job\_id)) | | |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* employees** | | |
| **Field** | **Datatype** | **Constraint** |
| emp\_id | number | Primary key |
| ename | varchar(20) | Not Null |
| dob | date | Not Null |
| hire\_date | date | Not Null |
| designation | varchar(20) | Default 'Worker' |
| dept\_id | number | Foreign key,references department(dept\_id) |
|  |  |  |
| ***Table:* materials** | | |
| **Field** | **Datatype** | **Constraint** |
| mat\_id | number | Primary key |
| mat\_nam | varchar(20) | Not Null |
| qty | number | Not Null |
| price | number | Default 0 |
| supp\_nam | varchar(30) | Not Null |
| dept\_id | number | Foreign key,references department(dept\_id) |
| pur\_date | date | Not Null |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* equipment** | | |
| **Field** | **Datatype** | **Constraint** |
| equip\_id | number | Primary key |
| equip\_name | varchar(20) | Not Null |
| ls\_dt\_ser | date | Not Null |
| due\_dt\_ser | date |  |
| cost\_equip | number | Default 0 |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Table:* accounts** | | |
| **Field** | **Datatype** | **Constraint** |
| sno | number | Primary key |
| month | varchar(10) | Not Null |
| tot\_exp | number | default 0 |
| tot\_earn | number | default 0 |
| net\_earn | number | default 0 |

**FD DIAGRAMS**

***Table name: user\_shop***

name

Mobile\_no

Roll\_no

hostel

Room\_no

year

gender

class

***Table name: services***

Roll\_no

dos

Bill\_no

status

Total-due

***Table name: department***

Dept\_name

Dept\_id

***Table name: jobs***

Price

Job\_id

Dept\_id

Job\_desc

***Table name: employees***

ename

dob

Emp\_id

Hire\_date

designation

Dept\_id

Contact\_no

***Table name: washing***

due

Bill\_no

qty

Job\_id

***Table name: ironing***

Bill\_no

qty

due

Job\_id

***Table name: tailoring***

Bill\_no

qty

due

Job\_id

***Table name: dry\_clean***

Bill\_no

qty

due

Job\_id

***Table name: materials***

Mat\_nam

qty

Mat\_id

price

Supp\_name

Dept\_id

Pur\_dat

***Table name: equipment***

Equip\_name

Dept\_id

Equip\_id

Cost\_equip

Ls\_dt\_ser

Due\_dt\_ser

***Table name: accounts***

month

Tot\_exp

sno

Tot\_earn

net\_earn