## Patient

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Patient\_ID | Name | DOB | Gender | Address | Contact | Medical History | Doctor\_ID |
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## Doctor

RULE: For a strong entity set, attributes of the diagram will be same in the table.

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| --- | --- | --- | --- |
| Doctor\_ID | Name | Specialization | Contact |
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## Appointment

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- | --- |
| Appointment\_ID | Patient\_ID | Doctor\_ID | Date | Time | Status |
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## Medical Record

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- | --- | --- |
| Record\_ID | Patient\_ID | Doctor\_ID | Diagnosis | Prescription | Date | Treatment |
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## Hospital

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- |
| Hospital\_ID | Name | Location | Contact | Patient\_ID |
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## Billing

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- | --- |
| Bill\_ID | Patient\_ID | Amount | Date | Insurance Details | Status |
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## Inventory

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- |
| Inventory\_ID | Name | Quantity | Threshold | Hospital\_ID |
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## Medical Staff

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- |
| Staff\_ID | Name | Role | Contact | Hospital\_ID |
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## Referal

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- |
| Referal\_ID | Doctor\_ID | Notes | Date | Patient\_ID |
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## Telemedicine

RULE:

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| Tel\_ID | Meeting link | Notes | Appointment\_ID |
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## Disease Tracking

RULE: In many to many relationship, a separate table for relationship between two entities will be developed, in which primary key attributes for both entities will be included.

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| Disease name | description | No. of cases | Affected region |
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## Realtionship (disease tracking, patient)

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| --- | --- |
| Patient\_ID | Disease\_name |
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## Emergency response

RULE: For binary relationship with cardinality ratio either 1 to m or m to 1, a combined table will be developed for many side entity set.

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| --- | --- | --- | --- | --- | --- |
| Emergency\_ID | location | date | description | Hospital\_ID | Patient\_ID |
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