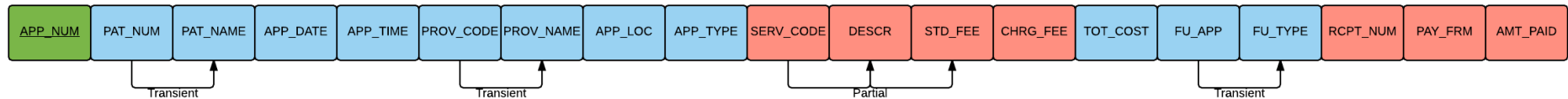**UNF**

Appointment number, Patient number, Patient Name, Appointment Date, Appointment Time, Provider Code, Provider Name, Appointment Location (Room), Appointment Type, (Service Code, Description, Standard Fee, Fee Charged), Total Appointment Cost, Follow Up Appointment Number, Follow Up Appointment Type, (Receipt Number, Payment From, Amount Paid)
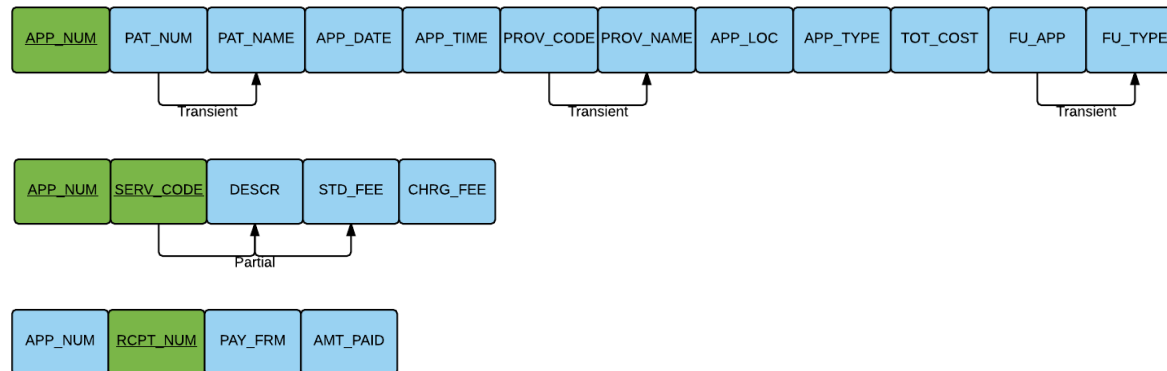
| APP_NUM | PAT_NUM | PAT_NAME | APP_DATE | APP_TIME | PROV_CODE | PROV_NAME | APP_LOC | APP_TYPE | SERV_CODE | DESCR | STD_FEE | CHRG_FEE | TOT_COST | FU_APP | FU_TYPE | RCPT_NUM | PAY_FRM | AMT_PAID |

Transient — Transient — Partial — Transient

UNF -> 1NF

Identify repeating groups: two found, service information and payment information

Appointment number, Patient number, Patient Name, Appointment Date, Appointment Time, Provider Code, Provider Name, Appointment Location (Room), Appointment Type, Total Appointment Cost, Follow Up Appointment Number, Follow Up Appointment Type,

Appointment number, Service Code, Description, Standard Fee, Fee Charged

Appointment number, Receipt Number, Payment From, Amount Paid

| APP_NUM | PAT_NUM | PAT_NAME | APP_DATE | APP_TIME | PROV_CODE | PROV_NAME | APP_LOC | APP_TYPE | TOT_COST | FU_APP | FU_TYPE |

Transient — Transient — Transient

| APP_NUM | SERV_CODE | DESCR | STD_FEE | CHRG_FEE |

Partial

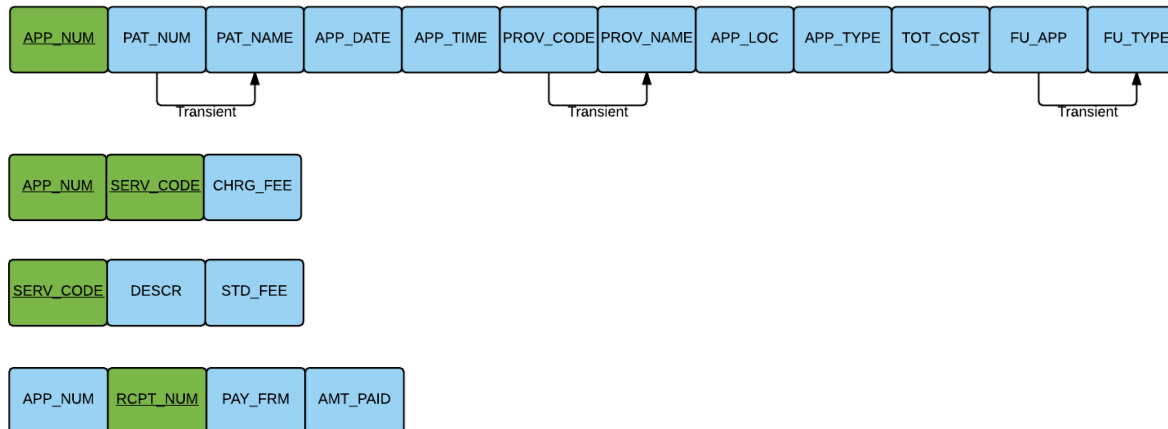| APP_NUM | RCPT_NUM | PAY_FRM | AMT_PAID |

1NF -> 2NF

Identify partial dependencies: 1 found, Service Desc, Standard fee is determined by service code only

Appointment number, Patient number, Patient Name, Appointment Date, Appointment Time, Provider Code, Provider Name, Appointment Location (Room), Appointment Type, Total Appointment Cost, Follow Up Appointment Number, Follow Up Appointment Type,

Appointment number, Service Code, Fee Charged

Service Code, Description, Standard Fee

Appointment number, Receipt Number, Payment From, Amount Paid

APP_NUM	PAT_NUM	PAT_NAME	APP_DATE	APP_TIME	PROV_CODE	PROV_NAME	APP_LOC	APP_TYPE	TOT_COST	FU_APP	FU_TYPE

Transient   Transient   Transient

APP_NUM	SERV_CODE	CHRG_FEE

SERV_CODE	DESCR	STD_FEE

APP_NUM	RCPT_NUM	PAY_FRM	AMT_PAID

2NF -> 3NF

Identify transient dependencies: 3 found, Patient details are determined by patient number, provider details are determined by provider code, follow up appointment type is determined by the follow up appointment number

<u>Appointment number</u>, Patient number , Appointment Date, Appointment Time, Provider Code, Appointment Location (Room), Appointment Type, Total Appointment Cost, Follow Up Appointment Number

<u>Patient number,</u> Patient Name

<u>Provider Code</u>, Provider Name,

<u>Follow Up Appointment Number</u>, Follow Up Appointment Type,

<u>Appointment number</u>, <u>Service Code</u>, Fee Charged

<u>Service Code</u>, Description, Standard Fee

Appointment number, <u>Receipt Number</u>, Payment From, Amount Paid

APP_NUM	PAT_NUM	APP_DATE	APP_TIME	PROV_CODE	APP_LOC	APP_TYPE	TOT_COST	FU_APP

PAT_NUM	PAT_NAME

PROV_CODE	PROV_NAME

FU_APP	FU_TYPE

APP_NUM	SERV_CODE	CHRG_FEE

2NF -> 3NF (Continued)

SERV_CODE	DESCR	STD_FEE

APP_NUM	RCPT_NUM	PAY_FRM	AMT_PAID