

Index	Rule
1	$\forall x, y \text{ @HotelA:numBed}(x) \wedge \text{String}(y) \wedge$ $\text{@HotelA:attrib}(x, y) \rightarrow \text{@HotelB:numBedsAttribute}(x) \wedge$ $\text{String}(y) \wedge \text{@HotelB:attrib}(x, y)$
2	$\forall x, y \text{ @HotelA:smokingPreference}(x) \wedge \text{String}(y) \wedge$ $\text{@HotelA:attrib}(x, y) \rightarrow \text{@HotelB:smokingAttribute}(x) \wedge$ $\text{String}(y) \wedge \text{@HotelB:attrib}(x, y)$
3	$\forall x, y \text{ @HotelA:onFloor}(x) \wedge \text{String}(y) \wedge$ $\text{@HotelA:attrib}(x, y) \rightarrow \text{@HotelB:onFloorAttribute}(x) \wedge$ $\text{String}(y) \wedge \text{@HotelB:attrib}(x, y)$
4	$\forall x, y \text{ @HotelA:oneRoom}(x) \wedge \text{@HotelA:numBeds}(y) \wedge$ $\text{@HotelA:hasNumbBedsAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:numBedsAttribute}(y) \wedge \text{@HotelB:numBedsAttribID}(x, y)$
5	$\forall x, y \text{ @HotelA:suite}(x) \wedge \text{@HotelA:numBeds}(y) \wedge$ $\text{@HotelA:hasNumbBedsAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:numBedsAttribute}(y) \wedge \text{@HotelB:numBedsAttribID}(x, y)$
6	$\forall x, y \text{ @HotelA:townHouse}(x) \wedge \text{@HotelA:numBeds}(y) \wedge$ $\text{@HotelA:hasNumbBedsAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:numBedsAttribute}(y) \wedge \text{@HotelB:numBedsAttribID}(x, y)$
7	$\forall x, y \text{ @HotelA:oneRoom}(x) \wedge \text{@HotelA:onFloor}(y) \wedge$ $\text{@HotelA:hasOnFloorAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:onFloorAttribute}(y) \wedge \text{@HotelB:onFloorAttribID}(x, y)$
8	$\forall x, y \text{ @HotelA:suite}(x) \wedge \text{@HotelA:onFloor}(y) \wedge$ $\text{@HotelA:hasOnFloorAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:onFloorAttribute}(y) \wedge \text{@HotelB:onFloorAttribID}(x, y)$
9	$\forall x, y \text{ @HotelA:townHouse}(x) \wedge \text{@HotelA:onFloor}(y) \wedge$ $\text{@HotelA:hasOnFloorAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:onFloorAttribute}(y) \wedge \text{@HotelB:onFloorAttribID}(x, y)$
10	$\forall x, y \text{ @HotelA:oneRoom}(x) \wedge \text{@HotelA:smokingPreference}(y) \wedge$ $\text{@HotelA:hasSmokingPreferenceAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:smokingAttribute}(y) \wedge \text{@HotelB:smokingOrNoAttribID}(x, y)$
11	$\forall x, y \text{ @HotelA:suite}(x) \wedge \text{@HotelA:smokingPreference}(y) \wedge$ $\text{@HotelA:hasSmokingPreferenceAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:smokingAttribute}(y) \wedge \text{@HotelB:smokingOrNoAttribID}(x, y)$
12	$\forall x, y \text{ @HotelA:townHouse}(x) \wedge \text{@HotelA:smokingPreference}(y) \wedge$ $\text{@HotelA:hasSmokingPreferenceAttribID}(x, y) \rightarrow \text{@HotelB:room}(x) \wedge$ $\text{@HotelB:smokingAttribute}(y) \wedge \text{@HotelB:smokingOrNoAttribID}(x, y)$
13	$\forall x \text{ @HotelA:oneRoom}(x) \vee \text{@HotelA:suite}(x) \vee$ $\text{@HotelA:townHouse}(x) \rightarrow \text{@HotelB:room}(x)$

Table 1: Mappings Between Hotel A and Hotel B Databases