

Sybase PowerDesigner Physical Data Model Report

***Model: Task-Worker_matching_ph
Report: PhysicalReport***



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Summary:

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The 'Table of Contents' field needs to be updated!

I Introduction

I.1 Description

I.2 Card of model Task-Worker_matching_ph

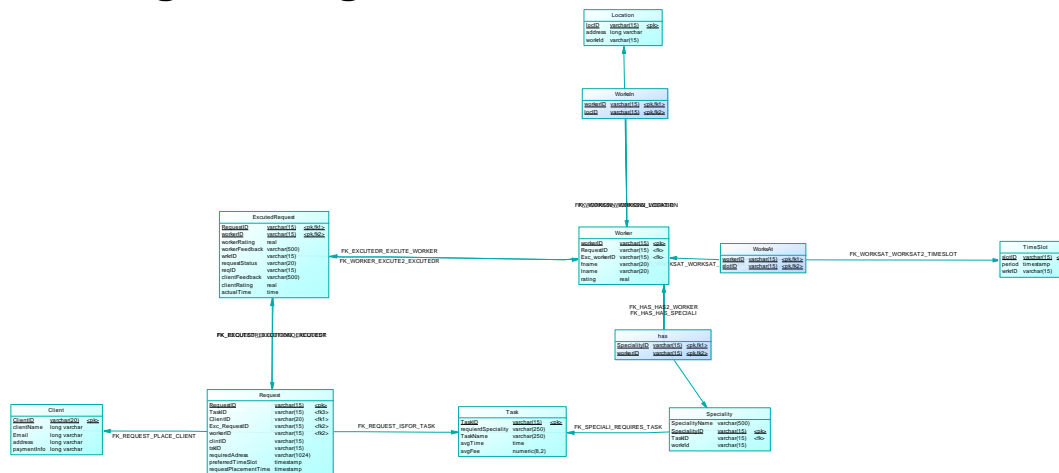
Name	Task-Worker_matching_ph
Code	TASK_WORKER_MATCHING_PH
DBMS	Sybase SQL Anywhere 10
Comment	
Database	<None>

II Short model description

II.1 List of diagrams

Name	Code
Diagram_1	DIAGRAM_1

II.2 Diagram Diagram_1



II.2.1 List of tables in diagram

Name	Code
Client	CLIENT
ExcutedRequest	EXCUTEDREQUEST
has	HAS
Location	LOCATION
Request	REQUEST
Speciality	SPECIALITY
Task	TASK
TimeSlot	TIMESLOT
Worker	WORKER
WorksAt	WORKSAT
WorksIn	WORKSIN

II.2.2 List of references in diagram

Name	Code	Parent Table	Child Table	Foreign Key	Parent Role	Child Role
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				Columns		
Excute	EXCUTE	Worker	ExcutedRe quest	workerID		
Excute	EXCUTE2	ExcutedRe quest	Worker	RequestID; Exc_worke rID		
ExcutionO f	EXCUTIO NOF2	Request	ExcutedRe quest	RequestID		
ExcutionO f	EXCUTIO NOF	ExcutedRe quest	Request	Exc_Reque stID; workerID		
has	HAS	Speciality	has	SpecialityI D		
has isFor Place Requires	HAS2 ISFOR PLACE REQUIRE S	Worker Task Client Task	has Request Request Speciality	workerID TaskID ClientID TaskID		
WorksAt	WORKSA T2	TimeSlot	WorksAt	slotID		
WorksAt	WORKSA T	Worker	WorksAt	workerID		
WorksIn	WORKSIN 2	Location	WorksIn	locID		
WorksIn	WORKSIN	Worker	WorksIn	workerID		

III.1 List of diagrams

III.2 Diagram Diagram_1



III.2.1.1 Table Client

III.2.1.1.1 Card of table Client

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III.2.1.1.2 Server validation rule of table Client

%RULES%

III.2.1.1.3 Check constraint name of table Client

CKT_CLIENT

III.2.1.1.4 List of incoming references of the table Client

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
Place	PLACE	Request	ClientID		

III.2.1.1.5 List of columns of the table Client

Name	Code
ClientID	CLIENTID
clientName	CLIENTNAME
Email	EMAIL
address	ADDRESS
paymentInfo	PAYMENTINFO

III.2.1.1.6 List of indexes of the table Client

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
CLIENT_PK	CLIENT_P K	X		X			Client

III.2.1.1.7 List of keys of the table Client

Name	Code	Primary
ClientID	CLIENTID	X

III.2.1.2 Table ExcutedRequest**III.2.1.2.1 Card of table ExcutedRequest**

Name	ExcutedRequest
Code	EXCUTEDREQUEST

III.2.1.2.2 Server validation rule of table ExcutedRequest

%RULES%

III.2.1.2.3 Check constraint name of table ExcutedRequest

CKT_EXCUTEDREQUEST

III.2.1.2.4 List of incoming references of the table ExcutedRequest

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
Excute	EXCUTE2	Worker	RequestID; Exc_workerID		
ExcutionOf	EXCUTION OF	Request	Exc_RequestID; workerID		

III.2.1.2.5 List of outgoing references of the table ExcutedRequest

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
Excute ExcutionOf	EXCUTE EXCUTION OF2	Worker Request	workerID RequestID		

III.2.1.2.6 List of columns of the table ExcutedRequest

Name	Code
RequestID	REQUESTID
workerID	WORKERID
workerRating	WORKERRATING
workerFeedback	WORKERFEEDBACK
wkrID	WRKRID
requestStatus	REQUESTSTATUS
reqID	REQID
clientFeedback	CLIENTFEEDBACK
clientRating	CLIENTRATING
actualTime	ACTUALTIME

III.2.1.2.7 List of indexes of the table ExcutedRequest

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
EXCUTE DREQUE ST_PK	EXCUTED REQUEST _PK	X	X	X			ExcutedReq uest
EXCUTIO NOF2_FK	EXCUTIO NOF2_FK				X		ExcutedReq uest
EXCUTE_ FK	EXCUTE_ FK				X		ExcutedReq uest

III.2.1.2.8 List of keys of the table ExcutedRequest

Name	Code	Primary
workerID	WORKERID	X

III.2.1.3 Table has**III.2.1.3.1 Card of table has**

Name	has
Code	HAS

III.2.1.3.2 Server validation rule of table has

%RULES%

III.2.1.3.3 Check constraint name of table has

CKT_HAS

III.2.1.3.4 List of outgoing references of the table has

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
has	HAS2	Worker	workerID		
has	HAS	Speciality	SpecialityID		

III.2.1.3.5 List of columns of the table has

Name	Code
SpecialityID	SPECIALITYID
workerID	WORKERID

III.2.1.3.6 List of indexes of the table has

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
HAS_PK	HAS_PK	X	X	X			has
HAS_FK	HAS_FK				X		has
HAS2_FK	HAS2_FK				X		has

III.2.1.3.7 List of keys of the table has

Name	Code	Primary
workerID	WORKERID	X

III.2.1.4 Table Location

III.2.1.4.1 Card of table Location

Name	Location
Code	LOCATION

III.2.1.4.2 Server validation rule of table Location

%RULES%

III.2.1.4.3 Check constraint name of table Location

CKT_LOCATION

III.2.1.4.4 List of incoming references of the table Location

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
WorksIn	WORKSIN2	WorksIn	locID		

III.2.1.4.5 List of columns of the table Location

Name	Code
locID	LOCID
address	ADDRESS
workrId	WORKRID

III.2.1.4.6 List of indexes of the table Location

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
LOCATIO N_PK	LOCATIO N_PK	X		X			Location

III.2.1.4.7 List of keys of the table Location

Name	Code	Primary
locID	LOCID	X

III.2.1.5 Table Request

III.2.1.5.1 Card of table Request

Name	Request
Code	REQUEST

III.2.1.5.2 Server validation rule of table Request

%RULES%

III.2.1.5.3 Check constraint name of table Request

CKT_REQUEST

III.2.1.5.4 List of incoming references of the table Request

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
ExcutionOf	EXCUTION OF2	ExcutedRequest	RequestID		

III.2.1.5.5 List of outgoing references of the table Request

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
ExcutionOf isFor Place	EXCUTION OF ISFOR PLACE	ExcutedRequest Task Client	Exc_RequestID; workerID TaskID ClientID		

III.2.1.5.6 List of columns of the table Request

Name	Code
RequestID	REQUESTID
TaskID	TASKID
ClientID	CLIENTID
Exc_RequestID	EXC_REQUESTID
workerID	WORKERID
clintID	CLINTID
tskID	TSKID
requiredAddress	REQUIREDADDRESS
preferredTimeSlot	PREFERREDTIMESLOT
requestPlacementTime	REQUESTPLACEMENTTIME

III.2.1.5.7 List of indexes of the table Request

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
REQUEST_PK	REQUEST_PK	X		X			Request
PLACE_FK	PLACE_FK				X		Request
EXCUTION_OF_FK	EXCUTION_OF_FK				X		Request

ISFOR_FK	ISFOR_FK				X		Request
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III.2.1.5.8 List of keys of the table Request

Name	Code	Primary
RequestID	REQUESTID	X

III.2.1.6 Table Speciality

III.2.1.6.1 Card of table Speciality

Name	Speciality
Code	SPECIALITY

III.2.1.6.2 Server validation rule of table Speciality

%RULES%

III.2.1.6.3 Check constraint name of table Speciality

CKT_SPECIALITY

III.2.1.6.4 List of incoming references of the table Speciality

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
has	HAS	has	SpecialityID		

III.2.1.6.5 List of outgoing references of the table Speciality

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
Requires	REQUIRES	Task	TaskID		

III.2.1.6.6 List of columns of the table Speciality

Name	Code
SpecialityName	SPECIALITYNAME
SpecialityID	SPECIALITYID
TaskID	TASKID
workrId	WORKRID

III.2.1.6.7 List of indexes of the table Speciality

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
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SPECIALI TY_PK	SPECIALI TY_PK	X		X			Speciality
REQUIRE S_FK	REQUIRES _FK				X		Speciality

III.2.1.6.8 List of keys of the table Speciality

Name	Code	Primary
SpecialityID	SPECIALITYID	X

III.2.1.7 Table Task

III.2.1.7.1 Card of table Task

Name	Task
Code	TASK

III.2.1.7.2 Server validation rule of table Task

%RULES%

III.2.1.7.3 Check constraint name of table Task

CKT_TASK

III.2.1.7.4 List of incoming references of the table Task

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
isFor Requires	ISFOR REQUIRES	Request Speciality	TaskID TaskID		

III.2.1.7.5 List of columns of the table Task

Name	Code
TaskID requierdSpeciality TaskName avgTime avgFee	TASKID REQUIERDSPECIALITY TASKNAME AVGTIME AVGFEE

III.2.1.7.6 List of indexes of the table Task

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
TASK_PK	TASK_PK	X		X			Task

III.2.1.7.7 List of keys of the table Task

Name	Code	Primary
TaskID	TASKID	X

III.2.1.8 Table TimeSlot**III.2.1.8.1 Card of table TimeSlot**

Name	TimeSlot
Code	TIMESLOT

III.2.1.8.2 Server validation rule of table TimeSlot

%RULES%

III.2.1.8.3 Check constraint name of table TimeSlot

CKT_TIMESLOT

III.2.1.8.4 List of incoming references of the table TimeSlot

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
WorksAt	WORKSAT2	WorksAt	slotID		

III.2.1.8.5 List of columns of the table TimeSlot

Name	Code
slotID	SLOTID
period	PERIOD
wkrID	WRKRID

III.2.1.8.6 List of indexes of the table TimeSlot

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
TIMESLOT_PK	TIMESLOT_PK	X		X			TimeSlot

III.2.1.8.7 List of keys of the table TimeSlot

Name	Code	Primary
slotID	SLOTID	X

III.2.1.9 Table Worker

III.2.1.9.1 Card of table Worker

Name Code	Worker WORKER
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III.2.1.9.2 Server validation rule of table Worker

%RULES%

III.2.1.9.3 Check constraint name of table Worker

CKT_WORKER

III.2.1.9.4 List of incoming references of the table Worker

Name	Code	Child Table	Foreign Key Columns	Parent Role	Child Role
Excute	EXCUTE	ExcutedRequ est	workerID		
has	HAS2	has	workerID		
WorksAt	WORKSAT	WorksAt	workerID		
WorksIn	WORKSIN	WorksIn	workerID		

III.2.1.9.5 List of outgoing references of the table Worker

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
Excute	EXCUTE2	ExcutedRequ est	RequestID; Exc_workerI D		

III.2.1.9.6 List of columns of the table Worker

Name	Code
workerID	WORKERID
RequestID	REQUESTID
Exc_workerID	EXC_WORKERID
fname	FNAME
lname	LNAME
rating	RATING

III.2.1.9.7 List of indexes of the table Worker

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
WORKER	WORKER_	X		X			Worker

_PK EXCUTE2 _FK	PK EXCUTE2_ FK				X		Worker
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III.2.1.9.8 List of keys of the table Worker

Name	Code	Primary
workerID	WORKERID	X

III.2.1.10 Table WorksAt

III.2.1.10.1 Card of table WorksAt

Name	WorksAt
Code	WORKSAT

III.2.1.10.2 Server validation rule of table WorksAt

%RULES%

III.2.1.10.3 Check constraint name of table WorksAt

CKT_WORKSAT

III.2.1.10.4 List of outgoing references of the table WorksAt

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
WorksAt WorksAt	WORKSAT2 WORKSAT	TimeSlot Worker	slotID workerID		

III.2.1.10.5 List of columns of the table WorksAt

Name	Code
workerID slotID	WORKERID SLOTID

III.2.1.10.6 List of indexes of the table WorksAt

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
WORKSA T_PK	WORKSAT _PK	X	X	X			WorksAt
WORKSA T_FK	WORKSAT _FK				X		WorksAt
WORKSA T2_FK	WORKSAT 2_FK				X		WorksAt

III.2.1.10.7 List of keys of the table WorksAt

Name	Code	Primary
slotID	SLOTID	X

III.2.1.11 Table WorksIn**III.2.1.11.1 Card of table WorksIn**

Name	WorksIn
Code	WORKSIN

III.2.1.11.2 Server validation rule of table WorksIn

%RULES%

III.2.1.11.3 Check constraint name of table WorksIn

CKT_WORKSIN

III.2.1.11.4 List of outgoing references of the table WorksIn

Name	Code	Parent Table	Foreign Key Columns	Parent Role	Child Role
WorksIn WorksIn	WORKSIN2 WORKSIN	Location Worker	locID workerID		

III.2.1.11.5 List of columns of the table WorksIn

Name	Code
workerID locID	WORKERID LOCID

III.2.1.11.6 List of indexes of the table WorksIn

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
WORKSIN_PK	WORKSIN_PK	X	X	X			WorksIn
WORKSIN_FK	WORKSIN_FK				X		WorksIn
WORKSIN2_FK	WORKSIN2_FK				X		WorksIn

III.2.1.11.7 List of keys of the table WorksIn

Name	Code	Primary
locID	LOCID	X

III.2.2 List of references in diagram

Name	Code	Parent Table	Child Table	Foreign Key Columns	Parent Role	Child Role
Excute	EXCUTE	Worker	ExcutedReque st	workerID		
Excute	EXCUTE2	ExcutedReque st	Worker	RequestID; Exc_workerI D		
ExcutionOf	EXCUTIONO F2	Request	ExcutedReque st	RequestID		
ExcutionOf	EXCUTIONO F	ExcutedReque st	Request	Exc_RequestI D; workerID		
has	HAS	Speciality	has	SpecialityID		
has	HAS2	Worker	has	workerID		
isFor	ISFOR	Task	Request	TaskID		
Place	PLACE	Client	Request	ClientID		
Requires	REQUIRES	Task	Speciality	TaskID		
WorksAt	WORKSAT2	TimeSlot	WorksAt	slotID		
WorksAt	WORKSAT	Worker	WorksAt	workerID		
WorksIn	WORKSIN2	Location	WorksIn	locID		
WorksIn	WORKSIN	Worker	WorksIn	workerID		

III.2.2.1 Reference Excute

III.2.2.1.1 Card of reference Excute

Name	Excute
Code	EXCUTE
Child Table	ExcutedRequest
Parent Table	Worker
Foreign Key Columns	workerID
Parent Role	
Child Role	

III.2.2.1.2 List of reference joins of the reference Excute

Parent Table Column	Child Table Column
workerID	workerID

III.2.2.2 Reference Excute

III.2.2.2.1 Card of reference Excute

Name	Excute
Code	EXCUTE2
Child Table	Worker
Parent Table	ExcutedRequest

Foreign Key Columns	RequestID; Exc_workerID
Parent Role	
Child Role	

III.2.2.2.2 List of reference joins of the reference Excute

Parent Table Column	Child Table Column
RequestID	RequestID
workerID	Exc_workerID

III.2.2.3 Reference ExcutionOf

III.2.2.3.1 Card of reference ExcutionOf

Name	ExcutionOf
Code	EXCUTIONOF2
Child Table	ExcutedRequest
Parent Table	Request
Foreign Key Columns	RequestID
Parent Role	
Child Role	

III.2.2.3.2 List of reference joins of the reference ExcutionOf

Parent Table Column	Child Table Column
RequestID	RequestID

III.2.2.4 Reference ExcutionOf

III.2.2.4.1 Card of reference ExcutionOf

Name	ExcutionOf
Code	EXCUTIONOF
Child Table	Request
Parent Table	ExcutedRequest
Foreign Key Columns	Exc_RequestID; workerID
Parent Role	
Child Role	

III.2.2.4.2 List of reference joins of the reference ExcutionOf

Parent Table Column	Child Table Column
RequestID	Exc_RequestID
workerID	workerID

III.2.2.5 Reference has

III.2.2.5.1 Card of reference has

Name	has
Code	HAS
Child Table	has
Parent Table	Speciality
Foreign Key Columns	SpecialityID
Parent Role	
Child Role	

III.2.2.5.2 List of reference joins of the reference has

Parent Table Column	Child Table Column
SpecialityID	SpecialityID

III.2.2.6 Reference has

III.2.2.6.1 Card of reference has

Name	has
Code	HAS2
Child Table	has
Parent Table	Worker
Foreign Key Columns	workerID
Parent Role	
Child Role	

III.2.2.6.2 List of reference joins of the reference has

Parent Table Column	Child Table Column
workerID	workerID

III.2.2.7 Reference isFor

III.2.2.7.1 Card of reference isFor

Name	isFor
Code	ISFOR
Child Table	Request
Parent Table	Task
Foreign Key Columns	TaskID
Parent Role	
Child Role	

III.2.2.7.2 List of reference joins of the reference isFor

Parent Table Column	Child Table Column
TaskID	TaskID

III.2.2.8 Reference Place**III.2.2.8.1 Card of reference Place**

Name	Place
Code	PLACE
Child Table	Request
Parent Table	Client
Foreign Key Columns	ClientID
Parent Role	
Child Role	

III.2.2.8.2 List of reference joins of the reference Place

Parent Table Column	Child Table Column
ClientID	ClientID

III.2.2.9 Reference Requires**III.2.2.9.1 Card of reference Requires**

Name	Requires
Code	REQUIRES
Child Table	Speciality
Parent Table	Task
Foreign Key Columns	TaskID
Parent Role	
Child Role	

III.2.2.9.2 List of reference joins of the reference Requires

Parent Table Column	Child Table Column
TaskID	TaskID

III.2.2.10 Reference WorksAt**III.2.2.10.1 Card of reference WorksAt**

Name	WorksAt
Code	WORKSAT2
Child Table	WorksAt

Parent Table Foreign Key Columns Parent Role Child Role	TimeSlot slotID
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III.2.2.10.2 List of reference joins of the reference WorksAt

Parent Table Column	Child Table Column
slotID	slotID

III.2.2.11 Reference WorksAt

III.2.2.11.1 Card of reference WorksAt

Name Code Child Table Parent Table Foreign Key Columns Parent Role Child Role	WorksAt WORKSAT WorksAt Worker workerID
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III.2.2.11.2 List of reference joins of the reference WorksAt

Parent Table Column	Child Table Column
workerID	workerID

III.2.2.12 Reference WorksIn

III.2.2.12.1 Card of reference WorksIn

Name Code Child Table Parent Table Foreign Key Columns Parent Role Child Role	WorksIn WORKSIN2 WorksIn Location locID
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III.2.2.12.2 List of reference joins of the reference WorksIn

Parent Table Column	Child Table Column
locID	locID

III.2.2.13 Reference WorksIn

III.2.2.13.1 Card of reference WorksIn

Name	WorksIn
Code	WORKSIN
Child Table	WorksIn
Parent Table	Worker
Foreign Key Columns	workerID
Parent Role	
Child Role	

III.2.2.13.2 List of reference joins of the reference WorksIn

Parent Table Column	Child Table Column
workerID	workerID

