

Supplement #18

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CREATING YOUR OWN CUSTOM REPORTS

The TURNOVER® for iSeries v100 Client/Server Projects and Helpdesk applications are shipped with a run-time version of Crystal Reports, a product of Business Objects, and with a corresponding set of pre-defined TURNOVER® for iSeries v100 reports. The TURNOVER® for iSeries v100 reports that we supply provide such project information as “Completed Tasks by Month” and “Open Tasks by Resource.” If you own a copy of the Crystal Reports software, you can modify the reports that we supply, as well as create your own reports and define them to your TURNOVER® for iSeries v100 Client/Server application. Also, you can use any SQL-based reporting tool to retrieve pertinent information from the TURNOVER® for iSeries v100 files.

Alternatively, you can use the reports available in our TURNOVER® for iSeries v100 Reports plug-in. The Reports plug-in provides a variety of report definitions built with the Crystal Reports® XI product. If you have Crystal report writing skills and the basic Crystal Reports software, you can customize the existing reports or create new ones. (For additional information about Crystal Reports, you can visit the Business Objects Web site: <http://www.businessobjects.com/>).

In general, the data required for reporting exists in the TURNOVER® for iSeries v100 project files. All of these files start with the letters “TPRJ” followed by three characters that uniquely describe the file (i.e. TPRJxxx). For instance, the name of the TURNOVER® for iSeries v100 project information file is TPRJPRJ. Logical files have an eighth character in their name. If you are using an SQL-based reporting tool, it is generally best that you just reference the physical files in your queries and let the database query utility choose the appropriate logical files to most efficiently return the results.

For your reference, the physical files that are associated with TURNOVER® for iSeries v100 projects are listed and described in the next section.

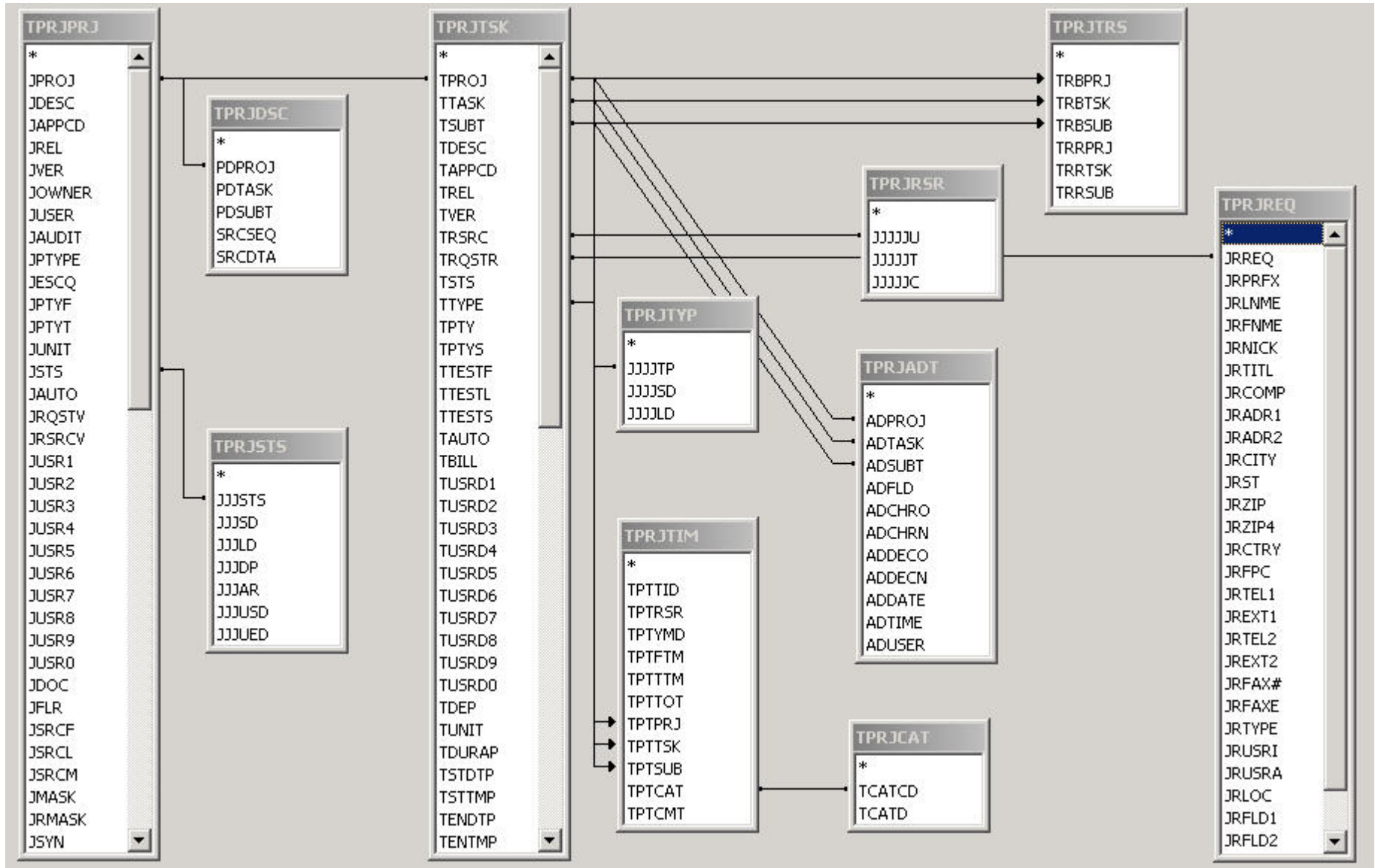
TURNOVER® FOR ISERIES V100 PHYSICAL FILES

The physical files that TURNOVER® for iSeries v100 uses are listed and described in the following table.

File Name	Description
TPRJADT Project Audit Information	Contains the change history for a task. A single record exists for each task field that is modified. The record lists the field name from the TPRJTSK file, the old and new value, the date on which the change was made, and the user who made the change.
TPRJCAT Timesheet Categories	Contains the description of any timesheet category referenced from file TPRJTIM.
TPRJDSK Project Details	Contains the task details. The details are made up of a series of 80-character records, with each record corresponding to one line of the details.
TPRJPRJ Project Information	A single record exists for each project. The record lists such project information as project description, type, status, and task defaults.
TPRJREQ Requester Information	Contains requester information such as the requester's name, telephone number, and company (name, address, telephone, and so forth).
TPRJRSR Resource Information	Contains the resource first and last name and resource category.
TPRJSTS Project and Task Status	Contains short and long status descriptions used for both projects and tasks. The status Show indicator is often used to indicate if projects or tasks are considered closed or finished. Show = N means the task is logically "closed;" Show = Y means it is "open."
TPRJTIM Project Timesheet	Stores the individual time entries that have been logged against a task.
TPRJTRS Related Tasks	Contains the relationship between Helpdesk task and the corresponding Working project task. An entry is generated when a Helpdesk task has been assigned to a Working project task.
TPRJTSK Project Tasks	The primary file for holding such task information as the project, resource, requester, status, priority, and date entered. A single entry exists for each task or subtask.
TPRJTYP Task Type	Contains short and long descriptions that indicate the task type.

A relational diagram of the TURNOVER® for iSeries v100 physical files is shown on the next page.

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TURNOVER® FOR ISERIES V100 FILE DEFINITIONS

The TURNOVER® for iSeries v100 file definitions, which will be useful to you in creating and populating your custom reports, are presented on the following pages.

TPRJADT – Audit Information		
Field Name	Data Type	Column Heading
ADPROJ	CHAR(4)	Project
ADTASK	CHAR(4)	Task
ADSUBT	CHAR(2)	Subtask
ADFLD	CHAR(10)	Audit Field Name
ADCHRO	CHAR(25)	Audit Old Character Value
ADCHRN	CHAR(25)	Audit New Character Value
ADDECO	DECIMAL(10, 2)	Audit Old Numeric Value
ADDECN	DECIMAL(10, 2)	Audit New Numeric Value
ADDATE	DECIMAL(8, 0)	Audit Date
ADTIME	DECIMAL(6, 0)	Audit Time
ADUSER	CHAR(10)	Audit User

TPRJCAT – Timesheet Category		
Field Name	Data Type	Column Heading
TCATCD	CHAR(1)	Time Category ID
TCATD	CHAR(40)	Time Category Description

TPRJDSK – Project Details		
Field Name	Data Type	Column Heading
PDPROJ	CHAR(4)	Project
PDTASK	CHAR(4)	Task
PDSUBT	CHAR(2)	Subtask
SRCSEQ	DECIMAL(6, 2)	Details Sequence
SRCDTA	CHAR(80)	Details Data

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TPRJPRJ – Project Definition		
Field Name	Data Type	Column Heading
JPROJ	CHAR(4)	Project
JDESC	CHAR(80)	Project Description
JAPPCD	CHAR(4)	Project Application
JREL	DECIMAL(2, 0)	Project Release
JVER	DECIMAL(2, 0)	Project Version
JOWNER	CHAR(10)	Project Administrator
JUSER	CHAR(10)	Project User
JAUDIT	CHAR(1)	Project Audit Changes
JPTYPE	CHAR(10)	Project Type
JESCQ	CHAR(10)	Escalation Table Name
JPTYF	CHAR(1)	Project From Priority
JPTYT	CHAR(1)	Project To Priority
JUNIT	CHAR(1)	Project Default Time Units
JSTS	CHAR(1)	Project Status
JAUTO	CHAR(1)	Project Auto Number Tasks
JRQSTV	CHAR(10)	Project Requester Validation
JRSRCV	CHAR(10)	Project Resource Validation
JUSR1	CHAR(10)	Project User Field 1
JUSR2	CHAR(10)	Project User Field 2
JUSR3	CHAR(10)	Project User Field 3
JUSR4	CHAR(10)	Project User Field 4
JUSR5	CHAR(10)	Project User Field 5
JUSR6	CHAR(10)	Project User Field 6
JUSR7	CHAR(10)	Project User Field 7
JUSR8	CHAR(10)	Project User Field 8
JUSR9	CHAR(10)	Project User Field 9
JUSR0	CHAR(10)	Project User Field 10
JDOC	CHAR(12)	Project Document
JFLR	CHAR(80)	Project Folder
JSRCF	CHAR(10)	Project Source File
JSRCL	CHAR(10)	Project Source Library
JSRCM	CHAR(10)	Project Source Member

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TPRJPRJ – Project Definition (Cont.)		
Field Name	Data Type	Column Heading
JMASK	CHAR(1)	Project Auto Enter Details
JRMASK	CHAR(1)	Project Report Mask Required
JSYN	CHAR(15)	Project Task Synonym
JISTS	CHAR(1)	Project Default Task Status
JRSTS	CHAR(1)	Project Rejected Status
JASTS	CHAR(1)	Project Accepted Status
JDSTS	CHAR(1)	Project Reviewed Status
JMSGRS	CHAR(1)	Project Auto Message Resource
JMSGRQ	CHAR(1)	Project Auto Message Requester
JCOORD	CHAR(10)	Project Coordinator
JRSRC	CHAR(10)	Project Default Resource
JRQSTR	CHAR(10)	Project Default Requester
JTYPE	CHAR(1)	Project Default Task Type
JPTY	CHAR(1)	Project Default Priority
JBILL	CHAR(1)	Project Default Billable Time
JTESTF	CHAR(10)	Project Default Data Library
JTESTL	CHAR(10)	Project Default Object Library
JTESTS	CHAR(10)	Project Default Source Library
JCOUNT	DECIMAL(7, 0)	Project Last Used Task Number
JENTBY	CHAR(10)	Project Entered By
JENTDT	DECIMAL(8, 0)	Project Date Entered
JENTTM	DECIMAL(6, 0)	Project Time Entered
JCHGBY	CHAR(10)	Project Changed By
JCHGDT	DECIMAL(8, 0)	Project Change Date
JCHGTM	DECIMAL(6, 0)	Project Change Time
JEDIT	CHAR(10)	Project Details Editor
JDYNUD	CHAR(1)	Project Dynamic Update
JDTAQ	CHAR(10)	Project Update Data Queue
JDTAQL	CHAR(10)	Project Update DTAQ Library

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TPRJPRJ – Project Definition (Cont.)		
Field Name	Data Type	Column Heading
JRSV1	CHAR(10)	Project Reserved 1
JRSV2	CHAR(10)	Project Reserved 2
JRSV3	CHAR(10)	Project Reserved 3
JRSV4	CHAR(10)	Project Reserved 4
JRSV5	CHAR(10)	Project Reserved 5
JMPRSD	DECIMAL(8, 0)	Project Start Date
JMPRED	DECIMAL(8, 0)	Project End Date
JUSRD1	CHAR(10)	Project Default User 1
JUSRD2	CHAR(10)	Project Default User 2
JUSRD3	CHAR(10)	Project Default User 3
JUSRD4	CHAR(10)	Project Default User 4
JUSRD5	CHAR(25)	Project Default User 5
JUSRD6	CHAR(25)	Project Default User 6
JUSRD7	DECIMAL(7, 0)	Project Default User 7
JUSRD8	DECIMAL(7, 0)	Project Default User 8
JUSRD9	DECIMAL(7, 2)	Project Default User 9
JUSRD0	DECIMAL(7, 2)	Project Default User 10
JMSPUID	DECIMAL(9, 0)	MSP ProjectUniqueID

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TPRJREQ – Requester		
Field Name	Data Type	Column Heading
JRREQ	CHAR(10)	Requester ID
JRPRFX	CHAR(4)	Requester Prefix
JRLNME	CHAR(18)	Requester Last Name
JRFNME	CHAR(12)	Requester First Name
JRNICK	CHAR(18)	Requester Nickname
JRTITL	CHAR(30)	Requester Title
JRCOMP	CHAR(30)	Requester Company
JRADR1	CHAR(30)	Requester Address Line 1
JRADR2	CHAR(30)	Requester Address Line 2
JRCITY	CHAR(18)	Requester City
JRST	CHAR(2)	Requester State
JRZIP	CHAR(5)	Requester Zip Code
JRZIP4	CHAR(4)	Requester Zip4
JRCTRY	CHAR(18)	Requester Country
JRFPC	CHAR(10)	Requester FPC
JRTEL1	CHAR(20)	Requester Telephone
JREXT1	CHAR(4)	Requester Phone Extension
JRTEL2	CHAR(20)	Requester Telephone 2
JREXT2	CHAR(4)	Requester Phone Extension 2
JRFAX#	CHAR(20)	Requester Fax Number
JRFAXE	CHAR(4)	Requester Fax Extension
JRTYPE	CHAR(2)	Requester Type
JRUSRI	CHAR(8)	Requester SNADS User ID
JRUSRA	CHAR(8)	Requester SNADS Address
JRLOC	CHAR(15)	Requester Location
JRFLD1	CHAR(10)	Requester User Field 1
JRFLD2	CHAR(10)	Requester User Field 2
JRFLD3	CHAR(10)	Requester User Field 3
JRFLD4	CHAR(10)	Requester User Field 4

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TPRJRSR – Resource		
Field Name	Data Type	Column Heading
JJJJUJ	CHAR(10)	Resource ID
JJJJJT	CHAR(40)	Resource Full Name
JJJJJC	CHAR(10)	Resource Category

TPRJSTS – Status		
Field Name	Data Type	Column Heading
JJJSTS	CHAR(1)	Project Status ID
JJJSD	CHAR(8)	Project Status Short Description
JJJLD	CHAR(40)	Project Status Long Description
JJJDP	CHAR(1)	Project Status Show
JJJAR	CHAR(1)	Allow as Reference
JJJUSD	CHAR(1)	Update Start Date
JJJUED	CHAR(1)	Update End Date

TPRJTIM – Timesheet		
Field Name	Data Type	Column Heading
TPTTID	DECIMAL(9, 0)	Timesheet ID
TPTRSR	CHAR(10)	Timesheet User ID
TPTYMD	DECIMAL(8, 0)	Timesheet Date
TPTFTM	DECIMAL(6, 0)	Timesheet From Time
TPTTTM	DECIMAL(6, 0)	Timesheet To Time
TPTTOT	DECIMAL(4, 0)	Timesheet Total Minutes
TPTPRJ	CHAR(4)	Project
TPTTSK	CHAR(4)	Task
TPTSUB	CHAR(2)	Subtask
TPTCAT	CHAR(1)	Time Category ID
TPTCMT	CHAR(80)	Timesheet Comment

TPRJTRS – Task Relationships		
Field Name	Data Type	Column Heading
TRBPRJ	CHAR(4)	Project
TRBTSK	CHAR(4)	Task
TRBSUB	CHAR(2)	Subtask
TRRPRJ	CHAR(4)	Helpdesk Project
TRRTSK	CHAR(4)	Helpdesk Task
TRRSUB	CHAR(2)	Helpdesk Subtask

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TPRJTSK – Task		
Field Name	Data Type	Column Heading
TPROJ	CHAR(4)	Project
TTASK	CHAR(4)	Task
TSUBT	CHAR(2)	Subtask
TDESC	CHAR(80)	Task Description
TAPPCD	CHAR(4)	Task Application
TREL	DECIMAL(2, 0)	Task Release
TVER	DECIMAL(2, 0)	Task Version
TRSRC	CHAR(10)	Resource ID
TRQSTR	CHAR(10)	Requester ID
TSTS	CHAR(1)	Project Status ID
TTYPE	CHAR(1)	Task Type
TPTY	CHAR(1)	Task Priority
TPTYS	DECIMAL(3, 0)	Task Priority Sequence
TTESTF	CHAR(10)	Task Data Library
TTESTL	CHAR(10)	Task Object Library
TTESTS	CHAR(10)	Task Source Library
TAUTO	CHAR(1)	Task Auto Number Subtasks
TBILL	CHAR(1)	Task Billable Time
TUSRD1	CHAR(10)	Task User Field 1
TUSRD2	CHAR(10)	Task User Field 2
TUSRD3	CHAR(10)	Task User Field 3
TUSRD4	CHAR(10)	Task User Field 4
TUSRD5	CHAR(25)	Task User Field 5
TUSRD6	CHAR(25)	Task User Field 6
TUSRD7	DECIMAL(7, 0)	Task User Field 7
TUSRD8	DECIMAL(7, 0)	Task User Field 8
TUSRD9	DECIMAL(7, 2)	Task User Field 9
TUSRD0	DECIMAL(7, 2)	Task User Field 10
TDEP	CHAR(10)	Task Dependency
TUNIT	CHAR(1)	Task Default Time Units
TDURAP	DECIMAL(7, 2)	Task Planned Duration
TSTDTP	DECIMAL(8, 0)	Task Planned Start Date

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TPRJTSK – Task (Cont.)		
Field Name	Data Type	Column Heading
TSTTMP	DECIMAL(6, 0)	Task Planned Start Time
TENDTP	DECIMAL(8, 0)	Task Planned End Date
TENTMP	DECIMAL(6, 0)	Task Planned End Time
TDURAA	DECIMAL(7, 2)	Task Actual Duration
TSTDTA	DECIMAL(8, 0)	Task Actual Start Date
TSTTMA	DECIMAL(6, 0)	Task Actual Start Time
TENDTA	DECIMAL(8, 0)	Task Actual End Date
TENTMA	DECIMAL(6, 0)	Task Actual End Time
TNDDT	DECIMAL(8, 0)	Task Date Needed
TPRDT	DECIMAL(8, 0)	Task Date Promised
TDOC	CHAR(12)	Task Document
TFLR	CHAR(80)	Task Folder
TSRCF	CHAR(10)	Task Source File
TSRCL	CHAR(10)	Task Source File Library
TSRCM	CHAR(10)	Task Source Member
TCOUNT	DECIMAL(5, 0)	Task Last Subtask
TENTBY	CHAR(10)	Task Entered By
TENTDT	DECIMAL(8, 0)	Task Date Entered
TENTTM	DECIMAL(6, 0)	Task Time Entered
TCHGBY	CHAR(10)	Task Changed By
TCHGDT	DECIMAL(8, 0)	Task Change Date
TCHGTM	DECIMAL(6, 0)	Task Change Time
TRVWBY	CHAR(10)	Task Reviewed By
TRVWDT	DECIMAL(8, 0)	Task Date Reviewed
TRVWTM	DECIMAL(6, 0)	Task Time Reviewed
TASGBY	CHAR(10)	Task Assigned By
TASGDT	DECIMAL(8, 0)	Task Date Assigned
TASGTM	DECIMAL(6, 0)	Task Time Assigned
TACPBY	CHAR(10)	Task Accepted By
TACPDT	DECIMAL(8, 0)	Task Date Accepted
TACPMT	DECIMAL(6, 0)	Task Time Accepted
TRJTBY	CHAR(10)	Task Rejected By

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TPRJTSK – Task (Cont.)		
Field Name	Data Type	Column Heading
TRJTDT	DECIMAL(8, 0)	Task Date Rejected
TRJTMM	DECIMAL(6, 0)	Task Time Rejected
TDYNDT	DECIMAL(8, 0)	Task Refresh Date
TDYNTM	DECIMAL(6, 0)	Task Refresh Time
TMATCH	DECIMAL(5, 0)	Task Match Count
TRSV1	CHAR(10)	Task Reserved 1
TRSV2	CHAR(10)	Task Reserved 2
TRSV3	CHAR(10)	Task Reserved 3
TRSV4	CHAR(10)	Task Reserved 4
TRSV5	CHAR(10)	Task Reserved 5
TMSPUID	DECIMAL(9, 0)	MSP TaskUniqueID

TPRJTYT – Task Type		
Field Name	Data Type	Column Heading
JJJJTP	CHAR(1)	Task Type
JJJJSD	CHAR(8)	Task Type Short Description
JJJJLD	CHAR(40)	Task Type Long Description

EXAMPLES

This section provides examples of how you can use the TURNOVER® for iSeries v100 physical files and their fields to specify the data you want to include in your custom report.

Example One: Task Resource Report

In this example, you want to create a report of task resource information. This report will list the following information for each resource:

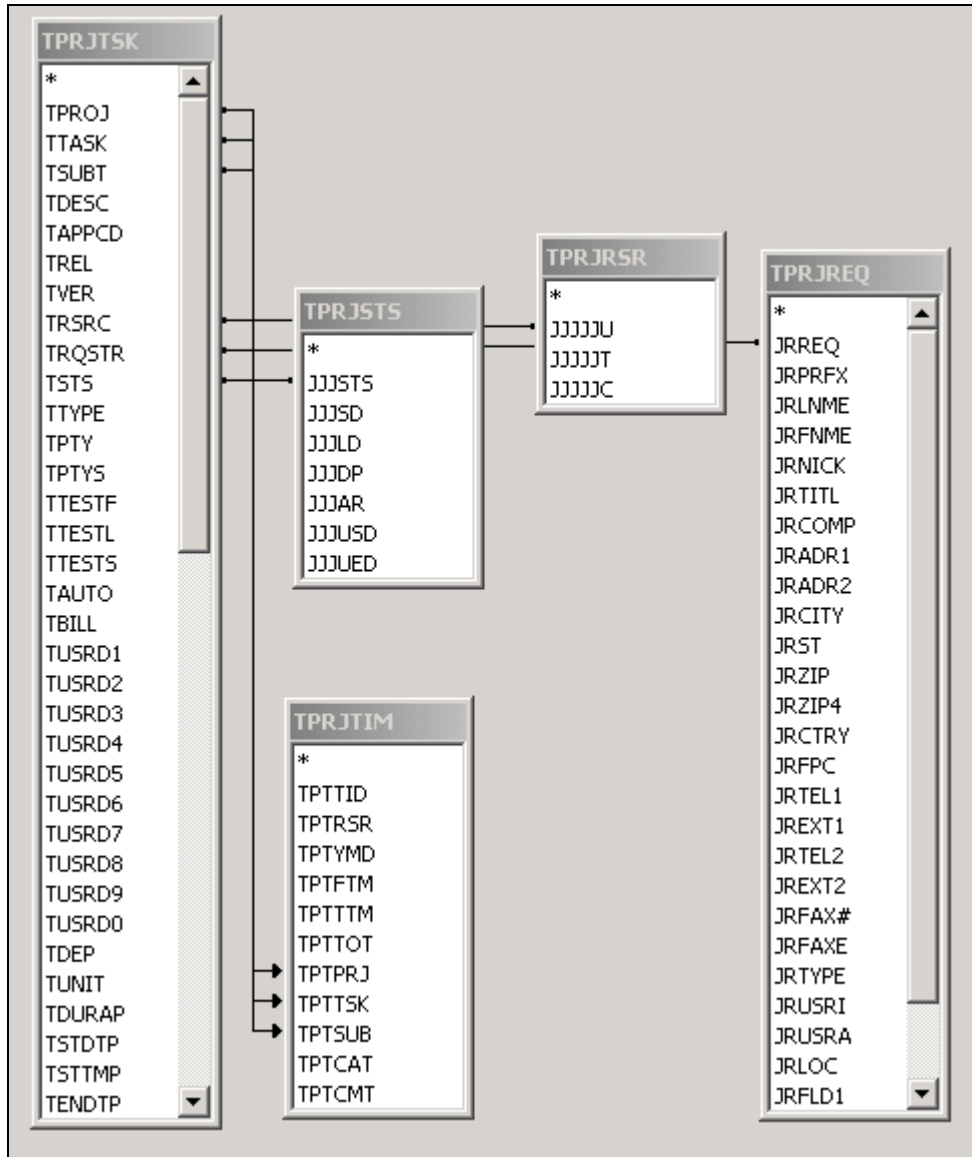
- Resource name
- Requester name
- Project
- Task ID
- Task name
- Subtask
- Task status (short description)
- Task priority
- Total time spent on each task.

The files and fields you need to build this report are the following:

File	Field	Description
TPRJTSK	TPROJ TTASK TSUBT TDESC TPTY	Project ID Task ID Subtask ID Task description Task priority
TPRJTIM	TPTTOT	Total time in minutes
TPRJRSR	JJJJT	Resource's full name
TPRJREQ	JRFNME JRLNME	Requester's first name Requester's last name
TPRJSTS	JJSD	Short status description

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The model for this report would look something like the following:



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Example Two: Task Escalation Report

In this example, you want to create a report of task escalation information. This report will list the following information for each task:

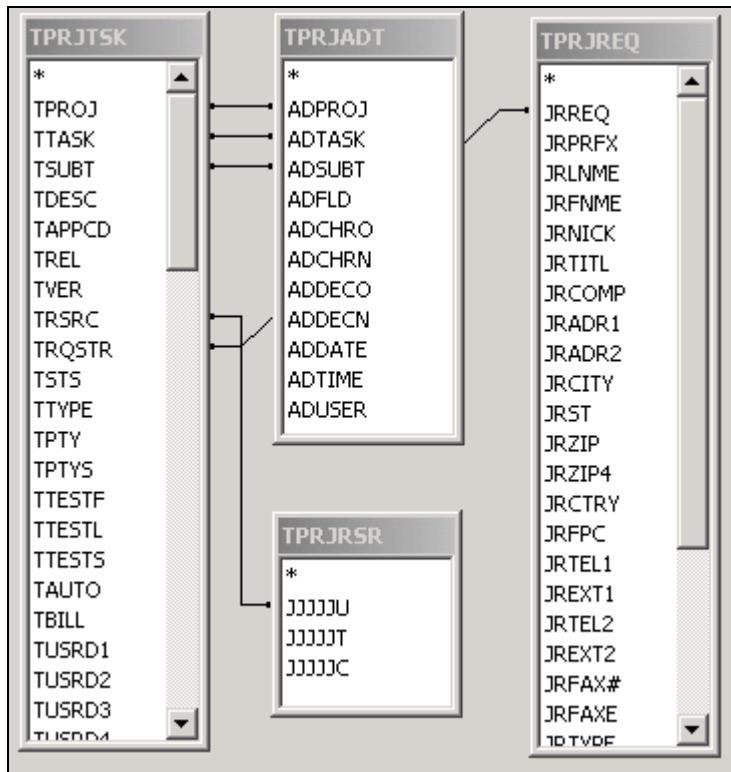
- Project
- Task ID
- Task name
- Subtask
- Requester name
- Resource name
- Escalation date
- Escalation time
- Action taken
- Old value
- New value.

The files and fields you need to build this report are the following:

File	Field	Description
TPRJTSK	TPROJ TTASK TSUBT TDESC	Project ID Task ID Subtask ID Task description
TPRJRSR	JJJJJT	Resource's full name
TPRJREQ	JRFNME JRLNME	Requester's first name Requester's last name
TPRJADT	ADUSER ADDATE ADTIME ADFLD ADCHRO ADCHRN	Filter escalation entries (*ESCQ) Escalation date Escalation time Name of modified field (status, priority, and so forth) Old value of the modified field New value of the modified field

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The model for this report would look something like the following:



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