Report

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1.0.4
国煤交易系统数据库设计

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1 Specifications

Include specifications here...

2 Model information

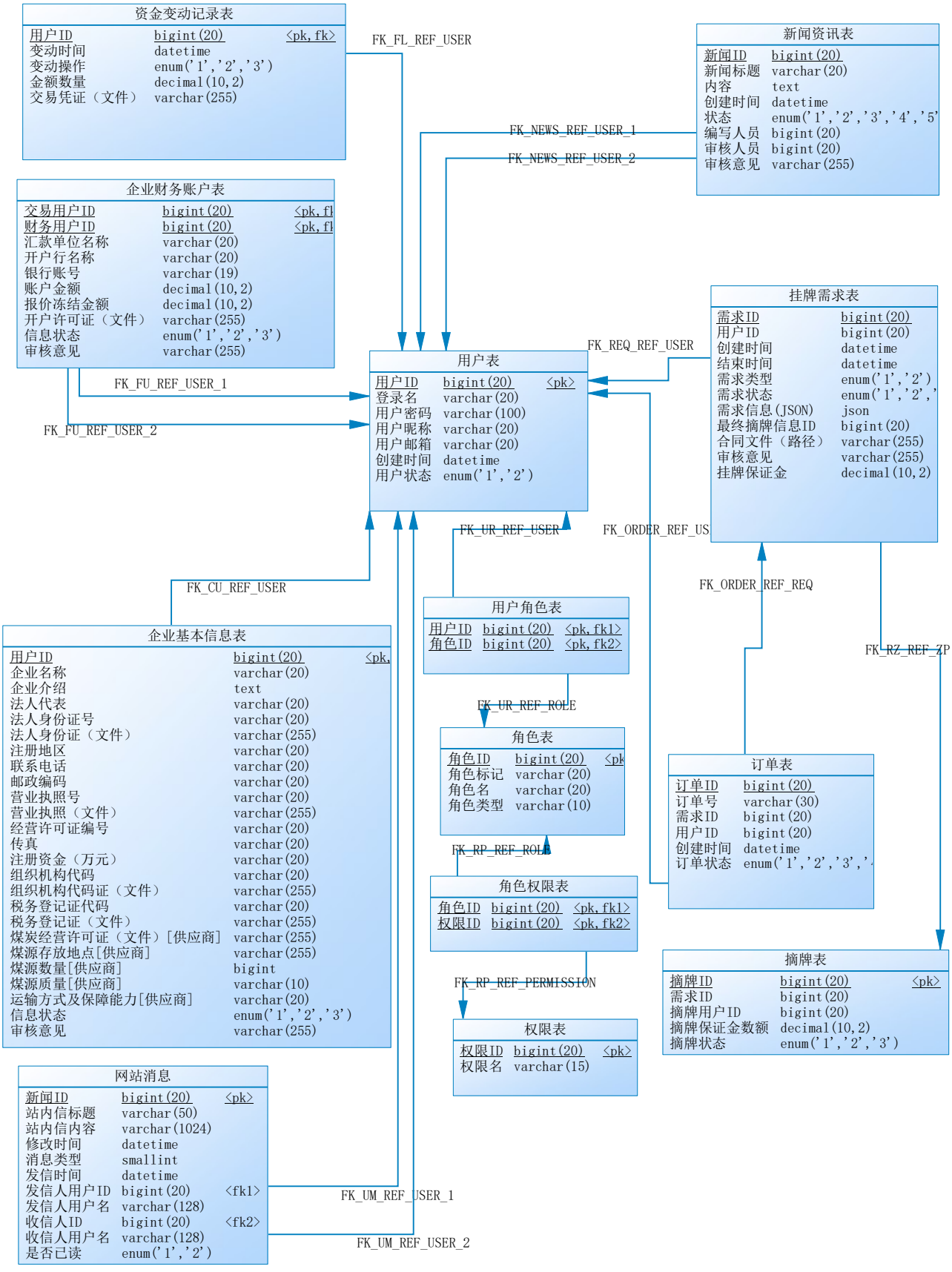
2.1 Card of model 国煤交易系统

Name	国煤交易系统
Code	coal_trading
Comment	国煤交易系统数据库设计
DBMS	MySQL 5.7
Database	国煤交易系统

3 PDM Diagrams

3.1 Model level diagrams

3.1.1 Diagram 国煤交易系统



4 Common Objects

4.1 Data Sources

4.1.1 List of data sources

Name	*Code*
数据源	数据源

4.1.2 Data source 数据源

4.1.2.1 Card of data source 数据源

Name	数据源
Code	数据源

5 Physical diagrams objects

5.1 References

5.1.1 Model level references

5.1.1.1 List of references

Name	*Code*	*Parent Table*	*Child Table*
CU_REF_USER	CU_REF_USER	用户表	企业基本信息表
FL_REF_USER	FL_REF_USER	用户表	资金变动记录表
FU_REF_USER_1	FU_REF_USER_1	用户表	企业财务账户表
FU_REF_USER_2	FU_REF_USER_2	用户表	企业财务账户表
NEWS_REF_USER_1	NEWS_REF_USER_1	用户表	新闻资讯表
NEWS_REF_USER_2	NEWS_REF_USER_2	用户表	新闻资讯表
ORDER_REF_REQ	ORDER_REF_REQ	挂牌需求表	订单表
ORDER_REF_USER	ORDER_REF_USER	用户表	订单表
REQ_REF_USER	REQ_REF_USER	用户表	挂牌需求表
REQ_REF_USER_2	REQ_REF_USER_2	用户表	挂牌需求表
RP_REF_PERMISSION	RP_REF_PERMISSION	权限表	角色权限表
RP_REF_ROLE	RP_REF_ROLE	角色表	角色权限表
RZ_REF_ZP	RZ_REF_ZP	摘牌表	挂牌需求表
UM_REF_USER_1	UM_REF_USER_1	用户表	网站消息
UM_REF_USER_2	UM_REF_USER_2	用户表	网站消息
UR_REF_ROLE	UR_REF_ROLE	角色表	用户角色表
UR_REF_USER	UR_REF_USER	用户表	用户角色表

5.1.1.2 Reference CU_REF_USER

5.1.1.2.1 Card of reference CU_REF_USER

Name	CU_REF_USER
Code	CU_REF_USER
Parent Table	用户表
Child Table	企业基本信息表

5.1.1.2.2 Code preview of the reference CU_REF_USER

```
use coal_trading;

use coal_trading;

alter table ct_company add constraint FK_CU_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.2.3 List of diagrams containing the reference CU_REF_USER

Name	*Code*
国煤交易系统	pdp

5.1.1.2.4 List of reference joins of the reference CU_REF_USER

Parent Table Column	*Child Table Column*
用户ID	用户ID

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.3 Reference FL_REF_USER

5.1.1.3.1 Card of reference FL_REF_USER

Name	FL_REF_USER
Code	FL_REF_USER
Parent Table	用户表
Child Table	资金变动记录表

5.1.1.3.2 Code preview of the reference FL_REF_USER

```
use coal_trading;

use coal_trading;

alter table ct_finance_log add constraint FK_FL_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.3.3 List of diagrams containing the reference FL_REF_USER

Name	*Code*
国煤交易系统	pdp

5.1.1.3.4 List of reference joins of the reference FL_REF_USER

Parent Table Column	*Child Table Column*
用户ID	用户ID

5.1.1.3.5 List of extended attributes of the reference FL_REF_USER

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.4 Reference FU_REF_USER_1

5.1.1.4.1 Card of reference FU_REF_USER_1

Name	FU_REF_USER_1
Code	FU_REF_USER_1
Parent Table	用户表
Child Table	企业财务账户表

5.1.1.4.2 Code preview of the reference FU_REF_USER_1

```
use coal_trading;

use coal_trading;

alter table ct_finance add constraint FK_FU_REF_USER_1 foreign key (main_userid)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.4.3 List of diagrams containing the reference FU_REF_USER_1

Name	*Code*
国煤交易系统	pdp

5.1.1.4.4 List of reference joins of the reference FU_REF_USER_1

Parent Table Column	*Child Table Column*
用户ID	交易用户ID

5.1.1.4.5 List of extended attributes of the reference FU_REF_USER_1

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.5 Reference FU_REF_USER_2

5.1.1.5.1 Card of reference FU_REF_USER_2

Name	FU_REF_USER_2
Code	FU_REF_USER_2
Parent Table	用户表
Child Table	企业财务账户表

5.1.1.5.2 Code preview of the reference FU_REF_USER_2

```
use coal_trading;

use coal_trading;

alter table ct_finance add constraint FK_FU_REF_USER_2 foreign key (finance_userid)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.5.3 List of diagrams containing the reference FU_REF_USER_2

Name	*Code*
国煤交易系统	pdp

5.1.1.5.4 List of reference joins of the reference FU_REF_USER_2

Parent Table Column	*Child Table Column*
用户ID	财务用户ID

5.1.1.5.5 List of extended attributes of the reference FU_REF_USER_2

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.6 Reference NEWS_REF_USER_1

5.1.1.6.1 Card of reference NEWS_REF_USER_1

Name	NEWS_REF_USER_1
Code	NEWS_REF_USER_1
Parent Table	用户表
Child Table	新闻资讯表

5.1.1.6.2 Code preview of the reference NEWS_REF_USER_1

```
use coal_trading;

use coal_trading;

alter table ct_news add constraint FK_NEWS_REF_USER_1 foreign key (author_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.6.3 List of diagrams containing the reference NEWS_REF_USER_1

Name	*Code*
国煤交易系统	pdp

5.1.1.6.4 List of reference joins of the reference NEWS_REF_USER_1

Parent Table Column	*Child Table Column*
用户ID	编写人员

5.1.1.6.5 List of extended attributes of the reference NEWS_REF_USER_1

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.7 Reference NEWS_REF_USER_2

5.1.1.7.1 Card of reference NEWS_REF_USER_2

Name	NEWS_REF_USER_2
Code	NEWS_REF_USER_2
Parent Table	用户表
Child Table	新闻资讯表

5.1.1.7.2 Code preview of the reference NEWS_REF_USER_2

```
use coal_trading;

use coal_trading;

alter table ct_news add constraint FK_NEWS_REF_USER_2 foreign key (auditor_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.7.3 List of diagrams containing the reference NEWS_REF_USER_2

Name	*Code*
国煤交易系统	pdp

5.1.1.7.4 List of reference joins of the reference NEWS_REF_USER_2

Parent Table Column	*Child Table Column*
用户ID	审核人员

5.1.1.7.5 List of extended attributes of the reference NEWS_REF_USER_2

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.8 Reference ORDER_REF_REQ

5.1.1.8.1 Card of reference ORDER_REF_REQ

Name	ORDER_REF_REQ
Code	ORDER_REF_REQ
Parent Table	挂牌需求表
Child Table	订单表

5.1.1.8.2 Code preview of the reference ORDER_REF_REQ

```
use coal_trading;
```

use coal_trading;

alter table ct_order add constraint FK_ORDER_REF_REQ foreign key (req_id)
references ct_request (id) on delete restrict on update restrict;

5.1.1.8.3 List of diagrams containing the reference ORDER_REF_REQ

Name	*Code*
国煤交易系统	pdp

5.1.1.8.4 List of reference joins of the reference ORDER_REF_REQ

Parent Table Column	*Child Table Column*
需求ID	需求ID

5.1.1.8.5 List of extended attributes of the reference ORDER_REF_REQ

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.9 Reference ORDER_REF_USER

5.1.1.9.1 Card of reference ORDER_REF_USER

Name	ORDER_REF_USER
Code	ORDER_REF_USER
Parent Table	用户表
Child Table	订单表

5.1.1.9.2 Code preview of the reference ORDER_REF_USER

use coal_trading;

use coal_trading;

alter table ct_order add constraint FK_ORDER_REF_USER foreign key (user_id)
references ct_users (id) on delete restrict on update restrict;

5.1.1.9.3 List of diagrams containing the reference ORDER_REF_USER

Name	*Code*
国煤交易系统	pdp

5.1.1.9.4 List of reference joins of the reference ORDER_REF_USER

Parent Table Column	*Child Table Column*
用户ID	用户ID

5.1.1.9.5 List of extended attributes of the reference ORDER_REF_USER

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.10 Reference REQ_REF_USER

5.1.1.10.1 Card of reference REQ_REF_USER

Name	REQ_REF_USER
Code	REQ_REF_USER
Parent Table	用户表

Child Table	挂牌需求表

5.1.1.10.2 Code preview of the reference REQ_REF_USER

```
use coal_trading;

use coal_trading;

alter table ct_request add constraint FK_REQ_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.10.3 List of diagrams containing the reference REQ_REF_USER

Name	*Code*
国煤交易系统	pdp

5.1.1.10.4 List of reference joins of the reference REQ_REF_USER

Parent Table Column	*Child Table Column*
用户ID	用户ID

5.1.1.10.5 List of extended attributes of the reference REQ_REF_USER

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.11 Reference REQ_REF_USER_2

5.1.1.11.1 Card of reference REQ_REF_USER_2

Name	REQ_REF_USER_2
Code	REQ_REF_USER_2
Parent Table	用户表
Child Table	挂牌需求表

5.1.1.11.2 Code preview of the reference REQ_REF_USER_2

```
use coal_trading;

use coal_trading;

alter table ct_request add constraint FK_REQ_REF_USER_2 foreign key (zp_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.11.3 List of reference joins of the reference REQ_REF_USER_2

Parent Table Column	*Child Table Column*
用户ID	最终摘牌信息ID

5.1.1.11.4 List of extended attributes of the reference REQ_REF_USER_2

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.12 Reference RP_REF_PERMISSION

5.1.1.12.1 Card of reference RP_REF_PERMISSION

Name	RP_REF_PERMISSION
Code	RP_REF_PERMISSION

Parent Table	权限表
Child Table	角色权限表

5.1.1.12.2 Code preview of the reference RP_REF_PERMISSION

```
use coal_trading;

use coal_trading;

alter table ct_role_permission_relationships add constraint FK_RP_REF_PERMISSION foreign key (permission_id)
    references ct_permissions (id) on delete restrict on update restrict;
```

5.1.1.12.3 List of diagrams containing the reference RP_REF_PERMISSION

Name	*Code*
国煤交易系统	pdp

5.1.1.12.4 List of reference joins of the reference RP_REF_PERMISSION

Parent Table Column	*Child Table Column*
权限ID	权限ID

5.1.1.12.5 List of extended attributes of the reference RP_REF_PERMISSION

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.13 Reference RP_REF_ROLE

5.1.1.13.1 Card of reference RP_REF_ROLE

Name	RP_REF_ROLE
Code	RP_REF_ROLE
Parent Table	角色表
Child Table	角色权限表

5.1.1.13.2 Code preview of the reference RP_REF_ROLE

```
use coal_trading;

use coal_trading;

alter table ct_role_permission_relationships add constraint FK_RP_REF_ROLE foreign key (role_id)
    references ct_userrole (id) on delete restrict on update restrict;
```

5.1.1.13.3 List of diagrams containing the reference RP_REF_ROLE

Name	*Code*
国煤交易系统	pdp

5.1.1.13.4 List of reference joins of the reference RP_REF_ROLE

Parent Table Column	*Child Table Column*
角色ID	角色ID

5.1.1.13.5 List of extended attributes of the reference RP_REF_ROLE

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.14 Reference RZ_REF_ZP

5.1.1.14.1 Card of reference RZ_REF_ZP

Name	RZ_REF_ZP
Code	RZ_REF_ZP
Parent Table	摘牌表
Child Table	挂牌需求表

5.1.1.14.2 Code preview of the reference RZ_REF_ZP

```
use coal_trading;

use coal_trading;

alter table ct_request add constraint FK_RZ_REF_ZP foreign key (zp_id)
    references ct_zp (id) on delete restrict on update restrict;
```

5.1.1.14.3 List of diagrams containing the reference RZ_REF_ZP

Name	*Code*
国煤交易系统	pdp

5.1.1.14.4 List of reference joins of the reference RZ_REF_ZP

Parent Table Column	*Child Table Column*
摘牌ID	最终摘牌信息ID

5.1.1.14.5 List of extended attributes of the reference RZ_REF_ZP

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.15 Reference UM_REF_USER_1

5.1.1.15.1 Card of reference UM_REF_USER_1

Name	UM_REF_USER_1
Code	UM_REF_USER_1
Parent Table	用户表
Child Table	网站消息

5.1.1.15.2 Code preview of the reference UM_REF_USER_1

```
use coal_trading;

use coal_trading;

alter table ct_website_message add constraint FK_UM_REF_USER_1 foreign key (from_userid)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.15.3 List of diagrams containing the reference UM_REF_USER_1

Name	*Code*
国煤交易系统	pdp

5.1.1.15.4 List of reference joins of the reference UM_REF_USER_1

Parent Table Column	*Child Table Column*
用户ID	发信人用户ID

5.1.1.15.5 List of extended attributes of the reference UM_REF_USER_1

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.16 Reference UM_REF_USER_2

5.1.1.16.1 Card of reference UM_REF_USER_2

Name	UM_REF_USER_2
Code	UM_REF_USER_2
Parent Table	用户表
Child Table	网站消息

5.1.1.16.2 Code preview of the reference UM_REF_USER_2

```
use coal_trading;

use coal_trading;

alter table ct_website_message add constraint FK_UM_REF_USER_2 foreign key (to_userid)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.16.3 List of diagrams containing the reference UM_REF_USER_2

Name	*Code*
国煤交易系统	pdp

5.1.1.16.4 List of reference joins of the reference UM_REF_USER_2

Parent Table Column	*Child Table Column*
用户ID	收信人ID

5.1.1.16.5 List of extended attributes of the reference UM_REF_USER_2

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.17 Reference UR_REF_ROLE

5.1.1.17.1 Card of reference UR_REF_ROLE

Name	UR_REF_ROLE
Code	UR_REF_ROLE
Parent Table	角色表
Child Table	用户角色表

5.1.1.17.2 Code preview of the reference UR_REF_ROLE

```
use coal_trading;

use coal_trading;

alter table ct_user_role_relationships add constraint FK_UR_REF_ROLE foreign key (role_id)
    references ct_userrole (id) on delete restrict on update restrict;
```

5.1.1.17.3 List of diagrams containing the reference UR_REF_ROLE

Name	*Code*

Name	*Code*
国煤交易系统	pdp

5.1.1.17.4 List of reference joins of the reference UR_REF_ROLE

Parent Table Column	*Child Table Column*
角色ID	角色ID

5.1.1.17.5 List of extended attributes of the reference UR_REF_ROLE

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.1.1.18 Reference UR_REF_USER

5.1.1.18.1 Card of reference UR_REF_USER

Name	UR_REF_USER
Code	UR_REF_USER
Parent Table	用户表
Child Table	用户角色表

5.1.1.18.2 Code preview of the reference UR_REF_USER

```
use coal_trading;

use coal_trading;

alter table ct_user_role_relationships add constraint FK_UR_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.1.1.18.3 List of diagrams containing the reference UR_REF_USER

Name	*Code*
国煤交易系统	pdp

5.1.1.18.4 List of reference joins of the reference UR_REF_USER

Parent Table Column	*Child Table Column*
用户ID	用户ID

5.1.1.18.5 List of extended attributes of the reference UR_REF_USER

Name	*Data Type*	*Value*	*Target Name*
ReferenceMatch	ReferenceMatchTyp e		MySQL 5.7

5.2 Tables

5.2.1 Model level tables

5.2.1.1 List of tables

Name	*Code*
企业基本信息表	ct_company
企业财务账户表	ct_finance
挂牌需求表	ct_request
摘牌表	ct_zp
新闻资讯表	ct_news
权限表	ct_permissions
用户表	ct_users
用户角色表	ct_user_role_relationships
网站消息	ct_website_message
角色权限表	ct_role_permission_relationships
角色表	ct_userrole
订单表	ct_order
资金变动记录表	ct_finance_log

5.2.1.2 List of table columns

Name	*Code*
新闻ID	id
新闻标题	title
内容	content
创建时间	date
状态	status
编写人员	author_id
审核人员	auditor_id
审核意见	audit_opinion
用户ID	id
登录名	login
用户密码	pass
用户昵称	nick
用户邮箱	email
创建时间	registered
用户状态	status
订单ID	id
订单号	num
需求ID	req_id
用户ID	user_id
创建时间	created_time
订单状态	status
角色ID	id
角色标记	mark
角色名	name
角色类型	type
权限ID	id

Name	*Code*
权限名	name
用户ID	user_id
角色ID	role_id
角色ID	role_id
权限ID	permission_id
需求ID	id
用户ID	user_id
创建时间	created_time
结束时间	ended_time
需求类型	type
需求状态	status
需求信息(JSON)	detail
最终摘牌信息ID	zp_id
合同文件（路径）	contract_file
审核意见	audit_opinion
挂牌保证金	deposit
交易用户ID	main_userid
财务用户ID	finance_userid
汇款单位名称	com_name
开户行名称	bank_name
银行账号	bank_acc
账户金额	balance
报价冻结金额	freeze
开户许可证（文件）	ao_permit_file
信息状态	status
审核意见	audit_opinion
用户ID	user_id
变动时间	date
变动操作	log_type
金额数量	quantity
交易凭证（文件）	cert
用户ID	user_id
企业名称	com_name
企业介绍	com_intro
法人代表	legal_name
法人身份证号	legal_id
法人身份证（文件）	legal_id_file
注册地区	com_addr
联系电话	com_contact
邮政编码	com_zip
营业执照号	business_license_id
营业执照（文件）	business_license_file
经营许可证编号	manage_license_id
传真	fax
注册资金（万元）	registered_capital
组织机构代码	oib_code
组织机构代码证（文件）	oib_code_file

Name	*Code*
税务登记证代码	tr_cert
税务登记证（文件）	tr_cert_file
煤炭经营许可证（文件）[供应商]	manage_license_file
煤源存放地点[供应商]	coal_store_site
煤源数量[供应商]	coal_quantity
煤源质量[供应商]	coal_quality
运输方式及保障能力[供应商]	coal_transport
信息状态	status
审核意见	audit_opinion
新闻ID	id
站内信标题	title
站内信内容	content
修改时间	modified
消息类型	msg_type
发信时间	created
发信人用户ID	from_userid
发信人用户名	from_username
收信人ID	to_userid
收信人用户名	to_username
是否已读	read_status
摘牌ID	id
需求ID	req_id
摘牌用户ID	user_id
摘牌保证金数额	deposit
摘牌状态	status

5.2.1.3 List of table keys

Name	*Code*	*Table*
Key_1	Key_1	新闻资讯表
Key_1	Key_1	用户表
Key_1	Key_1	订单表
Key_1	Key_1	角色表
Key_1	Key_1	权限表
Key_1	Key_1	用户角色表
Key_1	Key_1	角色权限表
Key_1	Key_1	挂牌需求表
Key_1	Key_1	企业财务账户表
Key_1	Key_1	资金变动记录表
Key_1	Key_1	企业基本信息表
Key_1	Key_1	网站消息
Key_1	Key_1	摘牌表

5.2.1.4 List of table indexes

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*	*Table*
Index_news_id	Index_news_id	X					新闻资讯表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*	*Table*
Index_user_login	Index_user_login	X					用户表
Index_user_email	Index_user_email						用户表
Index_user_id	Index_user_id						订单表
Index_req_id	Index_req_id						订单表
Index_order_id	Index_order_id	X					订单表
Index_order_num	Index_order_num	X					订单表
Index_role_id	Index_role_id						角色表
Index_pri	Index_pri	X					权限表
用户角色索引	Index_user_role						用户角色表
Index_user_id	Index_user_id	X					用户角色表
Index_role_pri_id	Index_role_pri_id	X					角色权限表
Index_req_id	Index_req_id						挂牌需求表
Index_finance_userid	Index_finance_userid	X					企业财务账户表
Index_main_userid	Index_main_userid	X					企业财务账户表
Index_user_id	Index_user_id						资金变动记录表
Index_log_type	Index_log_type						资金变动记录表
Index_com_name	Index_com_name	X					企业基本信息表
Index_to_userid	Index_to_userid						网站消息
Index_ZP_USER_ID	Index_ZP_USER_ID						摘牌表
Index_ZP_REQ_ID	Index_ZP_REQ_ID						摘牌表

5.2.1.5 Table 企业基本信息表

5.2.1.5.1 Card of table 企业基本信息表

Name	企业基本信息表
Code	ct_company
DBMS	MySQL 5.7

5.2.1.5.2 Check constraint name of the table 企业基本信息表

TK_ct_company

5.2.1.5.3 Server validation rule of the table 企业基本信息表

%RULES%

5.2.1.5.4 Options of the table 企业基本信息表

engine = InnoDB

5.2.1.5.5 Code preview of the table 企业基本信息表

```
use coal_trading;

drop table if exists ct_company;

/*==============================================================*/
/* Table: ct_company                                            */
/*==============================================================*/
create table ct_company
(
   user_id              bigint(20) not null comment '用户ID',
```

```
  com_name            varchar(20) not null comment '企业名称',
  com_intro           text comment '企业介绍',
  legal_name          varchar(20) comment '法人代表',
  legal_id            varchar(20) comment '法人身份证号',
  legal_id_file       varchar(255) comment '法人身份证（文件）',
  com_addr            varchar(20) comment '注册地区',
  com_contact         varchar(20) comment '联系电话',
  com_zip             varchar(20) comment '邮政编码',
  business_license_id  varchar(20) comment '营业执照号',
  business_license_file varchar(255) comment '营业执照（文件）',
  manage_license_id    varchar(20) comment '经营许可证编号',
  fax                 varchar(20) comment '传真',
  registered_capital   varchar(20) comment '注册资金（万元）',
  oib_code            varchar(20) comment '组织机构代码',
  oib_code_file       varchar(255) comment '组织机构代码证（文件）',
  tr_cert             varchar(20) comment '税务登记证代码',
  tr_cert_file        varchar(255) comment '税务登记证（文件）',
  manage_license_file  varchar(255) comment '煤炭经营许可证（文件）[供应商]',
  coal_store_site     varchar(255) comment '煤源存放地点[供应商]',
  coal_quantity       bigint comment '煤源数量[供应商]',
  coal_quality        varchar(10) comment '煤源质量[供应商]',
  coal_transport      varchar(20) comment '运输方式及保障能力[供应商]',
  status              enum('1','2','3') not null default '1' comment '信息状态
        1. 不可用
        2. 审核阶段
        3. 可用',
  audit_opinion       varchar(255) comment '审核意见',
  primary key (user_id)
)
engine = InnoDB;

alter table ct_company comment '企业基本信息表';

/*==============================================================*/
/* Index: Index_com_name                                        */
/*==============================================================*/
create unique index Index_com_name on ct_company
(
  com_name
);

alter table ct_company add constraint FK_CU_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.2.1.5.6 List of diagrams containing the table 企业基本信息表

Name	*Code*
国煤交易系统	pdp

5.2.1.5.7 List of outgoing references of the table 企业基本信息表

Name	*Code*	*Foreign Key Columns*
CU_REF_USER	CU_REF_USER	用户ID

5.2.1.5.8 List of all dependencies of the table 企业基本信息表

Name	*Code*	*Class Name*
CU_REF_USER	CU_REF_USER	Reference

5.2.1.5.9 List of extended attributes of the table 企业基本信息表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.5.10 List of columns of the table 企业基本信息表

Name	*Code*
用户ID	user_id
企业名称	com_name
企业介绍	com_intro
法人代表	legal_name
法人身份证号	legal_id
法人身份证（文件）	legal_id_file
注册地区	com_addr
联系电话	com_contact
邮政编码	com_zip
营业执照号	business_license_id
营业执照（文件）	business_license_file
经营许可证编号	manage_license_id
传真	fax
注册资金（万元）	registered_capital
组织机构代码	oib_code
组织机构代码证（文件）	oib_code_file
税务登记证代码	tr_cert
税务登记证（文件）	tr_cert_file
煤炭经营许可证（文件）[供应商]	manage_license_file
煤源存放地点[供应商]	coal_store_site
煤源数量[供应商]	coal_quantity
煤源质量[供应商]	coal_quality
运输方式及保障能力[供应商]	coal_transport
信息状态	status
审核意见	audit_opinion

5.2.1.5.11 Column 用户ID of the table 企业基本信息表

5.2.1.5.11.1 Card of the column 用户ID of the table 企业基本信息表

Name	用户ID
Code	user_id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.5.11.2 Check constraint name of the column 用户ID of the table 企业基本信息表

CK_user_id

5.2.1.5.11.3 Check of the column 用户ID of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.11.4 Server validation rule of the column 用户ID of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.11.5 List of all dependencies of the table column 用户ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
?	?	Reference Join

5.2.1.5.11.6 List of extended attributes of the table column 用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.12 Column 企业名称 of the table 企业基本信息表

5.2.1.5.12.1 Card of the column 企业名称 of the table 企业基本信息表

Name	企业名称
Code	com_name
Data Type	varchar(20)
Mandatory	Yes

5.2.1.5.12.2 Check constraint name of the column 企业名称 of the table 企业基本信息表

CK_com_name

5.2.1.5.12.3 Check of the column 企业名称 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.12.4 Server validation rule of the column 企业名称 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.12.5 List of all dependencies of the table column 企业名称

Name	*Code*	*Class Name*
企业名称	com_name	Index Column

5.2.1.5.12.6 List of extended attributes of the table column 企业名称

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.13 Column 企业介绍 of the table 企业基本信息表

Name	企业介绍
Code	com_intro
Data Type	text
Mandatory	No

5.2.1.5.13.2 Check constraint name of the column 企业介绍 of the table 企业基本信息表

CK_com_intro

5.2.1.5.13.3 Check of the column 企业介绍 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.13.4 Server validation rule of the column 企业介绍 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.13.5 List of extended attributes of the table column 企业介绍

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.14 Column 法人代表 of the table 企业基本信息表

5.2.1.5.14.1 Card of the column 法人代表 of the table 企业基本信息表

Name	法人代表
Code	legal_name
Data Type	varchar(20)
Mandatory	No

5.2.1.5.14.2 Check constraint name of the column 法人代表 of the table 企业基本信息表

CK_legal_name

5.2.1.5.14.3 Check of the column 法人代表 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.14.4 Server validation rule of the column 法人代表 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.15 Column 法人身份证号 of the table 企业基本信息表

5.2.1.5.15.1 Card of the column 法人身份证号 of the table 企业基本信息表

Name	法人身份证号
Code	legal_id
Data Type	varchar(20)
Mandatory	No

5.2.1.5.15.2 Check constraint name of the column 法人身份证号 of the table 企业基本信息表

CK_legal_id

5.2.1.5.15.3 Check of the column 法人身份证号 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.15.4 Server validation rule of the column 法人身份证号 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.15.5 List of extended attributes of the table column 法人身份证号

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.16 Column 法人身份证（文件） of the table 企业基本信息表

5.2.1.5.16.1 Card of the column 法人身份证（文件） of the table 企业基本信息表

Name	法人身份证（文件）
Code	legal_id_file
Data Type	varchar(255)
Mandatory	No

5.2.1.5.16.2 Check constraint name of the column 法人身份证（文件） of the table 企业基本信息表

CK_legal_id_file

5.2.1.5.16.3 Check of the column 法人身份证（文件） of the table 企业基本信息表

Minimum Value	
Maximum Value	

Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.16.4 Server validation rule of the column 法人身份证（文件） of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.16.5 List of extended attributes of the table column 法人身份证（文件）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.17 Column 注册地区 of the table 企业基本信息表

5.2.1.5.17.1 Card of the column 注册地区 of the table 企业基本信息表

Name	注册地区
Code	com_addr
Data Type	varchar(20)
Mandatory	No

5.2.1.5.17.2 Check constraint name of the column 注册地区 of the table 企业基本信息表

CK_com_addr

5.2.1.5.17.3 Check of the column 注册地区 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.17.4 Server validation rule of the column 注册地区 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.17.5 List of extended attributes of the table column 注册地区

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.18 Column 联系电话 of the table 企业基本信息表

5.2.1.5.18.1 Card of the column 联系电话 of the table 企业基本信息表

Name	联系电话

Code	com_contact
Data Type	varchar(20)
Mandatory	No

5.2.1.5.18.2 Check constraint name of the column 联系电话 of the table 企业基本信息表

CK_com_contact

5.2.1.5.18.3 Check of the column 联系电话 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.18.4 Server validation rule of the column 联系电话 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.18.5 List of extended attributes of the table column 联系电话

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.19 Column 邮政编码 of the table 企业基本信息表

5.2.1.5.19.1 Card of the column 邮政编码 of the table 企业基本信息表

Name	邮政编码
Code	com_zip
Data Type	varchar(20)
Mandatory	No

5.2.1.5.19.2 Check constraint name of the column 邮政编码 of the table 企业基本信息表

CK_com_zip

5.2.1.5.19.3 Check of the column 邮政编码 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.19.4 Server validation rule of the column 邮政编码 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.19.5 List of extended attributes of the table column 邮政编码

Name	*Data Type*	*Value*	*Target Name*

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.20 Column 营业执照号 of the table 企业基本信息表

5.2.1.5.20.1 Card of the column 营业执照号 of the table 企业基本信息表

Name	营业执照号
Code	business_license_id
Data Type	varchar(20)
Mandatory	No

5.2.1.5.20.2 Check constraint name of the column 营业执照号 of the table 企业基本信息表

CK_business_license_id

5.2.1.5.20.3 Check of the column 营业执照号 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.20.4 Server validation rule of the column 营业执照号 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.20.5 List of extended attributes of the table column 营业执照号

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.21 Column 营业执照（文件） of the table 企业基本信息表

5.2.1.5.21.1 Card of the column 营业执照（文件） of the table 企业基本信息表

Name	营业执照（文件）
Code	business_license_file
Data Type	varchar(255)
Mandatory	No

5.2.1.5.21.2 Check constraint name of the column 营业执照（文件） of the table 企业基本信息表

CK_business_license_file

5.2.1.5.21.3 Check of the column 营业执照（文件） of the table 企业基本信息表

Minimum Value	
Maximum Value	

Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.21.4 Server validation rule of the column 营业执照（文件） of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.21.5 List of extended attributes of the table column 营业执照（文件）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.22 Column 经营许可证编号 of the table 企业基本信息表

5.2.1.5.22.1 Card of the column 经营许可证编号 of the table 企业基本信息表

Name	经营许可证编号
Code	manage_license_id
Data Type	varchar(20)
Mandatory	No

5.2.1.5.22.2 Check constraint name of the column 经营许可证编号 of the table 企业基本信息表

CK_manage_license_id

5.2.1.5.22.3 Check of the column 经营许可证编号 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.22.4 Server validation rule of the column 经营许可证编号 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.22.5 List of extended attributes of the table column 经营许可证编号

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.23 Column 传真 of the table 企业基本信息表

5.2.1.5.23.1 Card of the column 传真 of the table 企业基本信息表

Name	传真

Code	fax
Data Type	varchar(20)
Mandatory	No

5.2.1.5.23.2 Check constraint name of the column 传真 of the table 企业基本信息表

CK_fax

5.2.1.5.23.3 Check of the column 传真 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.23.4 Server validation rule of the column 传真 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.23.5 List of extended attributes of the table column 传真

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.24 Column 注册资金（万元） of the table 企业基本信息表

5.2.1.5.24.1 Card of the column 注册资金（万元） of the table 企业基本信息表

Name	注册资金（万元）
Code	registered_capital
Data Type	varchar(20)
Mandatory	No

5.2.1.5.24.2 Check constraint name of the column 注册资金（万元） of the table 企业基本信息表

CK_registered_capital

5.2.1.5.24.3 Check of the column 注册资金（万元） of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.24.4 Server validation rule of the column 注册资金（万元） of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.24.5 List of extended attributes of the table column 注册资金（万元）

Name	*Data Type*	*Value*	*Target Name*

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.25 Column 组织机构代码 of the table 企业基本信息表

5.2.1.5.25.1 Card of the column 组织机构代码 of the table 企业基本信息表

Name	组织机构代码
Code	oib_code
Data Type	varchar(20)
Mandatory	No

5.2.1.5.25.2 Check constraint name of the column 组织机构代码 of the table 企业基本信息表

CK_oib_code

5.2.1.5.25.3 Check of the column 组织机构代码 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.25.4 Server validation rule of the column 组织机构代码 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.25.5 List of extended attributes of the table column 组织机构代码

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.26 Column 组织机构代码证（文件） of the table 企业基本信息表

5.2.1.5.26.1 Card of the column 组织机构代码证（文件） of the table 企业基本信息表

Name	组织机构代码证（文件）
Code	oib_code_file
Data Type	varchar(255)
Mandatory	No

5.2.1.5.26.2 Check constraint name of the column 组织机构代码证（文件） of the table 企业基本信息表

CK_oib_code_file

5.2.1.5.26.3 Check of the column 组织机构代码证（文件） of the table 企业基本信息表

Minimum Value	
Maximum Value	

Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.26.4 Server validation rule of the column 组织机构代码证（文件） of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.26.5 List of extended attributes of the table column 组织机构代码证（文件）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.27 Column 税务登记证代码 of the table 企业基本信息表

5.2.1.5.27.1 Card of the column 税务登记证代码 of the table 企业基本信息表

Name	税务登记证代码
Code	tr_cert
Data Type	varchar(20)
Mandatory	No

5.2.1.5.27.2 Check constraint name of the column 税务登记证代码 of the table 企业基本信息表

CK_tr_cert

5.2.1.5.27.3 Check of the column 税务登记证代码 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.27.4 Server validation rule of the column 税务登记证代码 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.27.5 List of extended attributes of the table column 税务登记证代码

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.28 Column 税务登记证（文件） of the table 企业基本信息表

5.2.1.5.28.1 Card of the column 税务登记证（文件） of the table 企业基本信息表

Name	税务登记证（文件）

Code	tr_cert_file
Data Type	varchar(255)
Mandatory	No

5.2.1.5.28.2 Check constraint name of the column 税务登记证（文件） of the table 企业基本信息表

CK_tr_cert_file

5.2.1.5.28.3 Check of the column 税务登记证（文件） of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.28.4 Server validation rule of the column 税务登记证（文件） of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.28.5 List of extended attributes of the table column 税务登记证（文件）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.29 Column 煤炭经营许可证（文件）[供应商] of the table 企业基本信息表

5.2.1.5.29.1 Card of the column 煤炭经营许可证（文件）[供应商] of the table 企业基本信息表

Name	煤炭经营许可证（文件）[供应商]
Code	manage_license_file
Data Type	varchar(255)
Mandatory	No

5.2.1.5.29.2 Check constraint name of the column 煤炭经营许可证（文件）[供应商] of the table 企业基本信息表

CK_manage_license_file

5.2.1.5.29.3 Check of the column 煤炭经营许可证（文件）[供应商] of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.29.4 Server validation rule of the column 煤炭经营许可证（文件）[供应商] of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.29.5 List of extended attributes of the table column 煤炭经营许可证（文件）[供应商]

Name	*Data Type*	*Value*	*Target Name*

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.30 Column 煤源存放地点[供应商] of the table 企业基本信息表

5.2.1.5.30.1 Card of the column 煤源存放地点[供应商] of the table 企业基本信息表

Name	煤源存放地点[供应商]
Code	coal_store_site
Data Type	varchar(255)
Mandatory	No

5.2.1.5.30.2 Check constraint name of the column 煤源存放地点[供应商] of the table 企业基本信息表

CK_coal_store_site

5.2.1.5.30.3 Check of the column 煤源存放地点[供应商] of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.30.4 Server validation rule of the column 煤源存放地点[供应商] of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.30.5 List of extended attributes of the table column 煤源存放地点[供应商]

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.31 Column 煤源数量[供应商] of the table 企业基本信息表

5.2.1.5.31.1 Card of the column 煤源数量[供应商] of the table 企业基本信息表

Name	煤源数量[供应商]
Code	coal_quantity
Data Type	bigint
Mandatory	No

5.2.1.5.31.2 Check constraint name of the column 煤源数量[供应商] of the table 企业基本信息表

CK_coal_quantity

5.2.1.5.31.3 Check of the column 煤源数量[供应商] of the table 企业基本信息表

Minimum Value	
Maximum Value	

Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.31.4 Server validation rule of the column 煤源数量[供应商] of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.31.5 List of extended attributes of the table column 煤源数量[供应商]

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.32 Column 煤源质量[供应商] of the table 企业基本信息表

5.2.1.5.32.1 Card of the column 煤源质量[供应商] of the table 企业基本信息表

Name	煤源质量[供应商]
Code	coal_quality
Data Type	varchar(10)
Mandatory	No

5.2.1.5.32.2 Check constraint name of the column 煤源质量[供应商] of the table 企业基本信息表

CK_coal_quality

5.2.1.5.32.3 Check of the column 煤源质量[供应商] of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.32.4 Server validation rule of the column 煤源质量[供应商] of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.32.5 List of extended attributes of the table column 煤源质量[供应商]

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.33 Column 运输方式及保障能力[供应商] of the table 企业基本信息表

5.2.1.5.33.1 Card of the column 运输方式及保障能力[供应商] of the table 企业基本信息表

Name	运输方式及保障能力[供应商]

Code	coal_transport
Data Type	varchar(20)
Mandatory	No

5.2.1.5.33.2 Check constraint name of the column 运输方式及保障能力[供应商] of the table 企业基本信息表

CK_coal_transport

5.2.1.5.33.3 Check of the column 运输方式及保障能力[供应商] of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.33.4 Server validation rule of the column 运输方式及保障能力[供应商] of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.33.5 List of extended attributes of the table column 运输方式及保障能力[供应商]

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.34 Column 信息状态 of the table 企业基本信息表

5.2.1.5.34.1 Card of the column 信息状态 of the table 企业基本信息表

Name	信息状态
Code	status
Data Type	enum('1','2','3')
Mandatory	Yes

5.2.1.5.34.2 Check constraint name of the column 信息状态 of the table 企业基本信息表

CK_status

5.2.1.5.34.3 Check of the column 信息状态 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	1
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.34.4 Server validation rule of the column 信息状态 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.34.5 List of extended attributes of the table column 信息状态

Name	*Data Type*	*Value*	*Target Name*

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.35 Column 审核意见 of the table 企业基本信息表

5.2.1.5.35.1 Card of the column 审核意见 of the table 企业基本信息表

Name	审核意见
Code	audit_opinion
Data Type	varchar(255)
Mandatory	No

5.2.1.5.35.2 Check constraint name of the column 审核意见 of the table 企业基本信息表

CK_audit_opinion

5.2.1.5.35.3 Check of the column 审核意见 of the table 企业基本信息表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.5.35.4 Server validation rule of the column 审核意见 of the table 企业基本信息表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.5.35.5 List of extended attributes of the table column 审核意见

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.5.36 List of keys of the table 企业基本信息表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.5.37 Key Key_1 of the table 企业基本信息表

5.2.1.5.37.1 Card of the key Key_1 of the table 企业基本信息表

Name	Key_1
Code	Key_1
Table	企业基本信息表

5.2.1.5.37.2 Code preview of the key Key_1 of the table 企业基本信息表

use coal_trading;

```
alter table ct_company
   drop primary key;
```

5.2.1.5.37.3 List of columns of the table key Key_1

Name	*Code*
用户ID	user_id

5.2.1.5.37.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.5.38 List of indexes of the table 企业基本信息表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_com_name	Index_com_name	X				

5.2.1.5.39 Index Index_com_name of the table 企业基本信息表

5.2.1.5.39.1 Card of the index Index_com_name of the table 企业基本信息表

Name	Index_com_name
Code	Index_com_name
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	企业基本信息表

5.2.1.5.39.2 Code preview of the index Index_com_name of the table 企业基本信息表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_com_name                                        */
/*==============================================================*/
create unique index Index_com_name on ct_company
(
   com_name
);
```

5.2.1.5.39.3 List of index columns of the table index Index_com_name

Name	*Code*	*Sort*
企业名称	com_name	Ascending

5.2.1.5.39.4 List of extended attributes of the table index Index_com_name

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.6 Table 企业财务账户表

5.2.1.6.1 Card of table 企业财务账户表

Name	企业财务账户表
Code	ct_finance

DBMS	MySQL 5.7

5.2.1.6.2 Check constraint name of the table 企业财务账户表

TK_ct_finance

5.2.1.6.3 Server validation rule of the table 企业财务账户表

%RULES%

5.2.1.6.4 Options of the table 企业财务账户表

engine = InnoDB

5.2.1.6.5 End script of the table 企业财务账户表

```
INSERT INTO ct_finance
(`main_userid`, `finance_userid`, `com_name`, `bank_name`, `bank_acc`, `balance`, `freeze`, `ao_permit_file`)
VALUES
(7, 8 , "供应商公司1", "银行1", "123456789", 10000.00, 5000.55, "path/to/file"),
(9, 10, "采购商公司2", "银行1", "123456789", 10000.00, 5000.55, "path/to/file");
```

5.2.1.6.6 Code preview of the table 企业财务账户表

```
use coal_trading;

drop table if exists ct_finance;

/*==============================================================*/
/* Table: ct_finance                                            */
/*==============================================================*/
create table ct_finance
(
   main_userid          bigint(20) not null comment '交易用户ID',
   finance_userid       bigint(20) not null comment '财务用户ID',
   com_name             varchar(20) comment '汇款单位名称',
   bank_name            varchar(20) comment '开户行名称',
   bank_acc             varchar(19) comment '银行账号',
   balance              decimal(10,2) comment '账户金额',
   freeze               decimal(10,2) comment '报价冻结金额',
   ao_permit_file       varchar(255) comment '开户许可证（文件）',
   status               enum('1','2','3') not null default '1' comment '信息状态
         1. 不可用
         2. 审核阶段
         3. 可用',
   audit_opinion        varchar(255) comment '审核意见',
   primary key (main_userid, finance_userid)
)
engine = InnoDB;

alter table ct_finance comment '企业财务账户表';

INSERT INTO ct_finance
(`main_userid`, `finance_userid`, `com_name`, `bank_name`, `bank_acc`, `balance`, `freeze`, `ao_permit_file`)
VALUES
(7, 8 , "供应商公司1", "银行1", "123456789", 10000.00, 5000.55, "path/to/file"),
(9, 10, "采购商公司2", "银行1", "123456789", 10000.00, 5000.55, "path/to/file");

/*==============================================================*/
/* Index: Index_finance_userid                                  */
/*==============================================================*/
create unique index Index_finance_userid on ct_finance
(
   finance_userid
);
```

```
/*==============================================================*/
/* Index: Index_main_userid                                     */
/*==============================================================*/
create unique index Index_main_userid on ct_finance
(
   main_userid
);

alter table ct_finance add constraint FK_FU_REF_USER_1 foreign key (main_userid)
      references ct_users (id) on delete restrict on update restrict;

alter table ct_finance add constraint FK_FU_REF_USER_2 foreign key (finance_userid)
      references ct_users (id) on delete restrict on update restrict;
```

5.2.1.6.7 List of diagrams containing the table 企业财务账户表

Name	*Code*
国煤交易系统	pdp

5.2.1.6.8 List of outgoing references of the table 企业财务账户表

Name	*Code*	*Foreign Key Columns*
FU_REF_USER_1	FU_REF_USER_1	交易用户ID
FU_REF_USER_2	FU_REF_USER_2	财务用户ID

5.2.1.6.9 List of all dependencies of the table 企业财务账户表

Name	*Code*	*Class Name*
FU_REF_USER_1	FU_REF_USER_1	Reference
FU_REF_USER_2	FU_REF_USER_2	Reference

5.2.1.6.10 List of extended attributes of the table 企业财务账户表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.6.11 List of columns of the table 企业财务账户表

Name	*Code*
交易用户ID	main_userid
财务用户ID	finance_userid
汇款单位名称	com_name
开户行名称	bank_name
银行账号	bank_acc
账户金额	balance
报价冻结金额	freeze
开户许可证（文件）	ao_permit_file
信息状态	status
审核意见	audit_opinion

5.2.1.6.12 Column 交易用户ID of the table 企业财务账户表

5.2.1.6.12.1 Card of the column 交易用户ID of the table 企业财务账户表

Name	交易用户ID
Code	main_userid
Data Type	bigint(20)
Mandatory	Yes

5.2.1.6.12.2 Check constraint name of the column 交易用户ID of the table 企业财务账户表

CK_main_userid

5.2.1.6.12.3 Check of the column 交易用户ID of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.12.4 Server validation rule of the column 交易用户ID of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.12.5 List of all dependencies of the table column 交易用户ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
交易用户ID	main_userid	Index Column
?	?	Reference Join

5.2.1.6.12.6 List of extended attributes of the table column 交易用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.13 Column 财务用户ID of the table 企业财务账户表

5.2.1.6.13.1 Card of the column 财务用户ID of the table 企业财务账户表

Name	财务用户ID
Code	finance_userid
Data Type	bigint(20)
Mandatory	Yes

5.2.1.6.13.2 Check constraint name of the column 财务用户ID of the table 企业财务账户表

CK_finance_userid

5.2.1.6.13.3 Check of the column 财务用户ID of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.13.4 Server validation rule of the column 财务用户ID of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.13.5 List of all dependencies of the table column 财务用户ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
?	?	Reference Join
财务用户ID	finance_userid	Index Column

5.2.1.6.13.6 List of extended attributes of the table column 财务用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.14 Column 汇款单位名称 of the table 企业财务账户表

5.2.1.6.14.1 Card of the column 汇款单位名称 of the table 企业财务账户表

Name	汇款单位名称
Code	com_name
Data Type	varchar(20)
Mandatory	No

5.2.1.6.14.2 Check constraint name of the column 汇款单位名称 of the table 企业财务账户表

CK_com_name

5.2.1.6.14.3 Check of the column 汇款单位名称 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.14.4 Server validation rule of the column 汇款单位名称 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.14.5 List of extended attributes of the table column 汇款单位名称

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.15 Column 开户行名称 of the table 企业财务账户表

5.2.1.6.15.1 Card of the column 开户行名称 of the table 企业财务账户表

Name	开户行名称
Code	bank_name

Data Type	varchar(20)
Mandatory	No

5.2.1.6.15.2 Check constraint name of the column 开户行名称 of the table 企业财务账户表

CK_bank_name

5.2.1.6.15.3 Check of the column 开户行名称 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.15.4 Server validation rule of the column 开户行名称 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.15.5 List of extended attributes of the table column 开户行名称

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.16 Column 银行账号 of the table 企业财务账户表

5.2.1.6.16.1 Card of the column 银行账号 of the table 企业财务账户表

Name	银行账号
Code	bank_acc
Data Type	varchar(19)
Mandatory	No

5.2.1.6.16.2 Check constraint name of the column 银行账号 of the table 企业财务账户表

CK_bank_acc

5.2.1.6.16.3 Check of the column 银行账号 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.16.4 Server validation rule of the column 银行账号 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.16.5 List of extended attributes of the table column 银行账号

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.17 Column 账户金额 of the table 企业财务账户表

5.2.1.6.17.1 Card of the column 账户金额 of the table 企业财务账户表

Name	账户金额
Code	balance
Data Type	decimal(10,2)
Mandatory	No

5.2.1.6.17.2 Check constraint name of the column 账户金额 of the table 企业财务账户表

CK_balance

5.2.1.6.17.3 Check of the column 账户金额 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.17.4 Server validation rule of the column 账户金额 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.17.5 List of extended attributes of the table column 账户金额

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.18 Column 报价冻结金额 of the table 企业财务账户表

5.2.1.6.18.1 Card of the column 报价冻结金额 of the table 企业财务账户表

Name	报价冻结金额
Code	freeze
Data Type	decimal(10,2)
Mandatory	No

5.2.1.6.18.2 Check constraint name of the column 报价冻结金额 of the table 企业财务账户表

CK_freeze

5.2.1.6.18.3 Check of the column 报价冻结金额 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	

Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.18.4 Server validation rule of the column 报价冻结金额 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.18.5 List of extended attributes of the table column 报价冻结金额

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.19 Column 开户许可证（文件） of the table 企业财务账户表

5.2.1.6.19.1 Card of the column 开户许可证（文件） of the table 企业财务账户表

Name	开户许可证（文件）
Code	ao_permit_file
Data Type	varchar(255)
Mandatory	No

5.2.1.6.19.2 Check constraint name of the column 开户许可证（文件） of the table 企业财务账户表

CK_ao_permit_file

5.2.1.6.19.3 Check of the column 开户许可证（文件） of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.19.4 Server validation rule of the column 开户许可证（文件） of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.19.5 List of extended attributes of the table column 开户许可证（文件）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.20 Column 信息状态 of the table 企业财务账户表

5.2.1.6.20.1 Card of the column 信息状态 of the table 企业财务账户表

Name	信息状态
Code	status

Data Type	enum('1','2','3')
Mandatory	Yes

5.2.1.6.20.2 Check constraint name of the column 信息状态 of the table 企业财务账户表

CK_status

5.2.1.6.20.3 Check of the column 信息状态 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	1
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.20.4 Server validation rule of the column 信息状态 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.20.5 List of extended attributes of the table column 信息状态

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.21 Column 审核意见 of the table 企业财务账户表

5.2.1.6.21.1 Card of the column 审核意见 of the table 企业财务账户表

Name	审核意见
Code	audit_opinion
Data Type	varchar(255)
Mandatory	No

5.2.1.6.21.2 Check constraint name of the column 审核意见 of the table 企业财务账户表

CK_audit_opinion

5.2.1.6.21.3 Check of the column 审核意见 of the table 企业财务账户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.6.21.4 Server validation rule of the column 审核意见 of the table 企业财务账户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.6.21.5 List of extended attributes of the table column 审核意见

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.6.22 List of keys of the table 企业财务账户表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.6.23 Key Key_1 of the table 企业财务账户表

5.2.1.6.23.1 Card of the key Key_1 of the table 企业财务账户表

Name	Key_1
Code	Key_1
Table	企业财务账户表

5.2.1.6.23.2 Code preview of the key Key_1 of the table 企业财务账户表

```
use coal_trading;

alter table ct_finance
   drop primary key;
```

5.2.1.6.23.3 List of columns of the table key Key_1

Name	*Code*
交易用户ID	main_userid
财务用户ID	finance_userid

5.2.1.6.23.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.6.24 List of indexes of the table 企业财务账户表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_finance_userid	Index_finance_userid	X				
Index_main_userid	Index_main_userid	X				

5.2.1.6.25 Index Index_finance_userid of the table 企业财务账户表

5.2.1.6.25.1 Card of the index Index_finance_userid of the table 企业财务账户表

Name	Index_finance_userid
Code	Index_finance_userid
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	企业财务账户表

5.2.1.6.25.2 Code preview of the index Index_finance_userid of the table 企业财务账户表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_finance_userid                                  */
/*==============================================================*/
create unique index Index_finance_userid on ct_finance
(
   finance_userid
);
```

5.2.1.6.25.3 List of index columns of the table index Index_finance_userid

Name	*Code*	*Sort*
财务用户ID	finance_userid	Ascending

5.2.1.6.25.4 List of extended attributes of the table index Index_finance_userid

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.6.26 Index Index_main_userid of the table 企业财务账户表

5.2.1.6.26.1 Card of the index Index_main_userid of the table 企业财务账户表

Name	Index_main_userid
Code	Index_main_userid
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	企业财务账户表

5.2.1.6.26.2 Code preview of the index Index_main_userid of the table 企业财务账户表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_main_userid                                     */
/*==============================================================*/
create unique index Index_main_userid on ct_finance
(
   main_userid
);
```

5.2.1.6.26.3 List of index columns of the table index Index_main_userid

Name	*Code*	*Sort*
交易用户ID	main_userid	Ascending

5.2.1.6.26.4 List of extended attributes of the table index Index_main_userid

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.7 Table 挂牌需求表

5.2.1.7.1 Card of table 挂牌需求表

Name	挂牌需求表
Code	ct_request
DBMS	MySQL 5.7

5.2.1.7.2 Check constraint name of the table 挂牌需求表

TK_ct_request

5.2.1.7.3 Server validation rule of the table 挂牌需求表

%RULES%

5.2.1.7.4 Options of the table 挂牌需求表

engine = InnoDB

5.2.1.7.5 Code preview of the table 挂牌需求表

```
use coal_trading;

drop table if exists ct_request;

/*==============================================================*/
/* Table: ct_request                                            */
/*==============================================================*/
create table ct_request
(
   id                   bigint(20) not null comment '需求ID',
   user_id              bigint(20) comment '用户ID',
   created_time         datetime comment '创建时间',
   ended_time           datetime comment '结束时间',
   type                 enum('1','2') comment '1. 卖出
         2. 采购',
   status               enum('1','2','3','4','5','6') not null comment '需求状态
         1. 草稿
         2. 审核中
         3. 发布
         4. 被摘取
         5. 隐藏
         6. 完成',
   detail               json comment '需求信息(JSON)',
   zp_id                bigint(20) comment '最终摘牌信息ID（摘牌表--摘牌ID）',
   contract_file        varchar(255) comment '合同文件（路径）',
   audit_opinion        varchar(255) comment '审核意见',
   deposit              decimal(10,2) comment '挂牌保证金',
   primary key (id)
)
engine = InnoDB;

/*==============================================================*/
/* Index: Index_req_id                                          */
/*==============================================================*/
create index Index_req_id on ct_request
(
   id
);

alter table ct_request add constraint FK_REQ_REF_USER foreign key (user_id)
      references ct_users (id) on delete restrict on update restrict;

alter table ct_request add constraint FK_REQ_REF_USER_2 foreign key (zp_id)
      references ct_users (id) on delete restrict on update restrict;
```

```
alter table ct_request add constraint FK_RZ_REF_ZP foreign key (zp_id)
    references ct_zp (id) on delete restrict on update restrict;
```

5.2.1.7.6 List of diagrams containing the table 挂牌需求表

Name	*Code*
国煤交易系统	pdp

5.2.1.7.7 List of incoming references of the table 挂牌需求表

Name	*Code*
ORDER_REF_REQ	ORDER_REF_REQ

5.2.1.7.8 List of outgoing references of the table 挂牌需求表

Name	*Code*	*Foreign Key Columns*
REQ_REF_USER	REQ_REF_USER	用户ID
REQ_REF_USER_2	REQ_REF_USER_2	最终摘牌信息ID
RZ_REF_ZP	RZ_REF_ZP	最终摘牌信息ID

5.2.1.7.9 List of all dependencies of the table 挂牌需求表

Name	*Code*	*Class Name*
ORDER_REF_REQ	ORDER_REF_REQ	Reference
REQ_REF_USER	REQ_REF_USER	Reference
REQ_REF_USER_2	REQ_REF_USER_2	Reference
RZ_REF_ZP	RZ_REF_ZP	Reference

5.2.1.7.10 List of extended attributes of the table 挂牌需求表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.7.11 List of columns of the table 挂牌需求表

Name	*Code*
需求ID	id
用户ID	user_id
创建时间	created_time
结束时间	ended_time
需求类型	type
需求状态	status
需求信息(JSON)	detail
最终摘牌信息ID	zp_id
合同文件（路径）	contract_file
审核意见	audit_opinion
挂牌保证金	deposit

5.2.1.7.12 Column 需求ID of the table 挂牌需求表

5.2.1.7.12.1 Card of the column 需求ID of the table 挂牌需求表

Name	需求ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.7.12.2 Check constraint name of the column 需求ID of the table 挂牌需求表

CK_id

5.2.1.7.12.3 Check of the column 需求ID of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.12.4 Server validation rule of the column 需求ID of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.12.5 List of all dependencies of the table column 需求ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
需求ID	id	Index Column
?	?	Reference Join

5.2.1.7.12.6 List of extended attributes of the table column 需求ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.13 Column 用户ID of the table 挂牌需求表

5.2.1.7.13.1 Card of the column 用户ID of the table 挂牌需求表

Name	用户ID
Code	user_id
Data Type	bigint(20)
Mandatory	No

5.2.1.7.13.2 Check constraint name of the column 用户ID of the table 挂牌需求表

CK_user_id

5.2.1.7.13.3 Check of the column 用户ID of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.13.4 Server validation rule of the column 用户ID of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.13.5 List of all dependencies of the table column 用户ID

Name	*Code*	*Class Name*
?	?	Reference Join

5.2.1.7.13.6 List of extended attributes of the table column 用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.14 Column 创建时间 of the table 挂牌需求表

5.2.1.7.14.1 Card of the column 创建时间 of the table 挂牌需求表

Name	创建时间
Code	created_time
Data Type	datetime
Mandatory	No

5.2.1.7.14.2 Check constraint name of the column 创建时间 of the table 挂牌需求表

CK_created_time

5.2.1.7.14.3 Check of the column 创建时间 of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.14.4 Server validation rule of the column 创建时间 of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.14.5 List of extended attributes of the table column 创建时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.15 Column 结束时间 of the table 挂牌需求表

5.2.1.7.15.1 Card of the column 结束时间 of the table 挂牌需求表

Name	结束时间
Code	ended_time
Data Type	datetime
Mandatory	No

5.2.1.7.15.2 Check constraint name of the column 结束时间 of the table 挂牌需求表

CK_ended_time

5.2.1.7.15.3 Check of the column 结束时间 of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.15.4 Server validation rule of the column 结束时间 of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.15.5 List of extended attributes of the table column 结束时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.16 Column 需求类型 of the table 挂牌需求表

5.2.1.7.16.1 Card of the column 需求类型 of the table 挂牌需求表

Name	需求类型
Code	type
Data Type	enum('1','2')
Mandatory	No

5.2.1.7.16.2 Check constraint name of the column 需求类型 of the table 挂牌需求表

CK_type

5.2.1.7.16.3 Check of the column 需求类型 of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.16.4 Server validation rule of the column 需求类型 of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.16.5 List of extended attributes of the table column 需求类型

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.17 Column 需求状态 of the table 挂牌需求表

5.2.1.7.17.1 Card of the column 需求状态 of the table 挂牌需求表

Name	需求状态
Code	status
Data Type	enum('1','2','3','4','5','6')
Mandatory	Yes

5.2.1.7.17.2 Check constraint name of the column 需求状态 of the table 挂牌需求表

CK_status

5.2.1.7.17.3 Check of the column 需求状态 of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.17.4 Server validation rule of the column 需求状态 of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.17.5 List of extended attributes of the table column 需求状态

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.18 Column 需求信息(JSON) of the table 挂牌需求表

5.2.1.7.18.1 Card of the column 需求信息(JSON) of the table 挂牌需求表

Name	需求信息(JSON)
Code	detail
Data Type	json
Mandatory	No

5.2.1.7.18.2 Check constraint name of the column 需求信息(JSON) of the table 挂牌需求表

CK_detail

5.2.1.7.18.3 Check of the column 需求信息(JSON) of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	

Cannot Modify	No
List Of Values	

5.2.1.7.18.4 Server validation rule of the column 需求信息(JSON) of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.18.5 List of extended attributes of the table column 需求信息(JSON)

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.19 Column 最终摘牌信息ID of the table 挂牌需求表

5.2.1.7.19.1 Card of the column 最终摘牌信息ID of the table 挂牌需求表

Name	最终摘牌信息ID
Code	zp_id
Data Type	bigint(20)
Mandatory	No

5.2.1.7.19.2 Check constraint name of the column 最终摘牌信息ID of the table 挂牌需求表

CK_zp_id

5.2.1.7.19.3 Check of the column 最终摘牌信息ID of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.19.4 Server validation rule of the column 最终摘牌信息ID of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.19.5 List of all dependencies of the table column 最终摘牌信息ID

Name	*Code*	*Class Name*
?	?	Reference Join
?	?	Reference Join

5.2.1.7.19.6 List of extended attributes of the table column 最终摘牌信息ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.20 Column 合同文件（路径） of the table 挂牌需求表

5.2.1.7.20.1 Card of the column 合同文件（路径） of the table 挂牌需求表

Name	合同文件（路径）
Code	contract_file
Data Type	varchar(255)
Mandatory	No

5.2.1.7.20.2 Check constraint name of the column 合同文件（路径） of the table 挂牌需求表

CK_contract_file

5.2.1.7.20.3 Check of the column 合同文件（路径） of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.20.4 Server validation rule of the column 合同文件（路径） of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.20.5 List of extended attributes of the table column 合同文件（路径）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.21 Column 审核意见 of the table 挂牌需求表

5.2.1.7.21.1 Card of the column 审核意见 of the table 挂牌需求表

Name	审核意见
Code	audit_opinion
Data Type	varchar(255)
Mandatory	No

5.2.1.7.21.2 Check constraint name of the column 审核意见 of the table 挂牌需求表

CK_audit_opinion

5.2.1.7.21.3 Check of the column 审核意见 of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.21.4 Server validation rule of the column 审核意见 of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.21.5 List of extended attributes of the table column 审核意见

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.22 Column 挂牌保证金 of the table 挂牌需求表

5.2.1.7.22.1 Card of the column 挂牌保证金 of the table 挂牌需求表

Name	挂牌保证金
Code	deposit
Data Type	decimal(10,2)
Mandatory	No

5.2.1.7.22.2 Check constraint name of the column 挂牌保证金 of the table 挂牌需求表

CK_deposit

5.2.1.7.22.3 Check of the column 挂牌保证金 of the table 挂牌需求表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.7.22.4 Server validation rule of the column 挂牌保证金 of the table 挂牌需求表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.7.22.5 List of extended attributes of the table column 挂牌保证金

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.7.23 List of keys of the table 挂牌需求表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.7.24 Key Key_1 of the table 挂牌需求表

5.2.1.7.24.1 Card of the key Key_1 of the table 挂牌需求表

Name	Key_1
Code	Key_1
Table	挂牌需求表

5.2.1.7.24.2 Code preview of the key Key_1 of the table 挂牌需求表

```
use coal_trading;

alter table ct_request
   drop primary key;
```

5.2.1.7.24.3 List of columns of the table key Key_1

Name	*Code*
需求ID	id

5.2.1.7.24.4 List of all dependencies of the table key Key_1

Name	*Code*	*Class Name*
ORDER_REF_REQ	ORDER_REF_REQ	Reference

5.2.1.7.24.5 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.7.25 List of indexes of the table 挂牌需求表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_req_id	Index_req_id					

5.2.1.7.26 Index Index_req_id of the table 挂牌需求表

5.2.1.7.26.1 Card of the index Index_req_id of the table 挂牌需求表

Name	Index_req_id
Code	Index_req_id
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	挂牌需求表

5.2.1.7.26.2 Code preview of the index Index_req_id of the table 挂牌需求表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_req_id                                          */
/*==============================================================*/
create index Index_req_id on ct_request
(
   id
);
```

5.2.1.7.26.3 List of index columns of the table index Index_req_id

Name	*Code*	*Sort*
需求ID	id	Ascending

5.2.1.7.26.4 List of extended attributes of the table index Index_req_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.8 Table 摘牌表

5.2.1.8.1 Card of table 摘牌表

Name	摘牌表
Code	ct_zp
DBMS	MySQL 5.7

5.2.1.8.2 Check constraint name of the table 摘牌表

TK_ct_zp

5.2.1.8.3 Server validation rule of the table 摘牌表

%RULES%

5.2.1.8.4 Options of the table 摘牌表

engine = InnoDB

5.2.1.8.5 Code preview of the table 摘牌表

```
use coal_trading;

drop table if exists ct_zp;

/*==============================================================*/
/* Table: ct_zp                                 */
/*==============================================================*/
create table ct_zp
(
  id                bigint(20) not null auto_increment comment '摘牌ID',
  req_id              bigint(20) comment '需求ID',
  user_id             bigint(20) comment '摘牌用户ID',
  deposit             decimal(10,2) comment '摘牌保证金数额',
  status              enum('1','2','3') comment '摘牌状态
        1. 等待交保证金
        2. 成功
        3. 失败（被抢先摘牌）',
  primary key (id)
)
engine = InnoDB;

/*==============================================================*/
/* Index: Index_ZP_USER_ID                          */
/*==============================================================*/
create index Index_ZP_USER_ID on ct_zp
(
  user_id
);

/*==============================================================*/
/* Index: Index_ZP_REQ_ID                           */
/*==============================================================*/
create index Index_ZP_REQ_ID on ct_zp
(
  req_id
);
```

5.2.1.8.6 List of diagrams containing the table 摘牌表

Name	*Code*
国煤交易系统	pdp

Name	*Code*
RZ_REF_ZP	RZ_REF_ZP

5.2.1.8.8 List of all dependencies of the table 摘牌表

Name	*Code*	*Class Name*
RZ_REF_ZP	RZ_REF_ZP	Reference

5.2.1.8.9 List of extended attributes of the table 摘牌表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.8.10 List of columns of the table 摘牌表

Name	*Code*
摘牌ID	id
需求ID	req_id
摘牌用户ID	user_id
摘牌保证金数额	deposit
摘牌状态	status

5.2.1.8.11 Column 摘牌ID of the table 摘牌表

5.2.1.8.11.1 Card of the column 摘牌ID of the table 摘牌表

Name	摘牌ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.8.11.2 Check constraint name of the column 摘牌ID of the table 摘牌表

CK_id

5.2.1.8.11.3 Check of the column 摘牌ID of the table 摘牌表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.8.11.4 Server validation rule of the column 摘牌ID of the table 摘牌表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.8.11.5 List of all dependencies of the table column 摘牌ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
?	?	Reference Join

5.2.1.8.11.6 List of extended attributes of the table column 摘牌ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.8.12 Column 需求ID of the table 摘牌表

5.2.1.8.12.1 Card of the column 需求ID of the table 摘牌表

Name	需求ID
Code	req_id
Data Type	bigint(20)
Mandatory	No

5.2.1.8.12.2 Check constraint name of the column 需求ID of the table 摘牌表

CK_req_id

5.2.1.8.12.3 Check of the column 需求ID of the table 摘牌表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.8.12.4 Server validation rule of the column 需求ID of the table 摘牌表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.8.12.5 List of all dependencies of the table column 需求ID

Name	*Code*	*Class Name*
需求ID	req_id	Index Column

5.2.1.8.12.6 List of extended attributes of the table column 需求ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.8.13 Column 摘牌用户ID of the table 摘牌表

5.2.1.8.13.1 Card of the column 摘牌用户ID of the table 摘牌表

Name	摘牌用户ID
Code	user_id
Data Type	bigint(20)
Mandatory	No

5.2.1.8.13.2 Check constraint name of the column 摘牌用户ID of the table 摘牌表

CK_user_id

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.8.13.4 Server validation rule of the column 摘牌用户ID of the table 摘牌表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.8.13.5 List of all dependencies of the table column 摘牌用户ID

Name	*Code*	*Class Name*
摘牌用户ID	user_id	Index Column

5.2.1.8.13.6 List of extended attributes of the table column 摘牌用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.8.14 Column 摘牌保证金数额 of the table 摘牌表

5.2.1.8.14.1 Card of the column 摘牌保证金数额 of the table 摘牌表

Name	摘牌保证金数额
Code	deposit
Data Type	decimal(10,2)
Mandatory	No

5.2.1.8.14.2 Check constraint name of the column 摘牌保证金数额 of the table 摘牌表

CK_deposit

5.2.1.8.14.3 Check of the column 摘牌保证金数额 of the table 摘牌表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.8.14.4 Server validation rule of the column 摘牌保证金数额 of the table 摘牌表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.8.14.5 List of extended attributes of the table column 摘牌保证金数额

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.8.15 Column 摘牌状态 of the table 摘牌表

5.2.1.8.15.1 Card of the column 摘牌状态 of the table 摘牌表

Name	摘牌状态
Code	status
Data Type	enum('1','2','3')
Mandatory	No

5.2.1.8.15.2 Check constraint name of the column 摘牌状态 of the table 摘牌表

CK_status

5.2.1.8.15.3 Check of the column 摘牌状态 of the table 摘牌表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.8.15.4 Server validation rule of the column 摘牌状态 of the table 摘牌表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.8.15.5 List of extended attributes of the table column 摘牌状态

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.8.16 List of keys of the table 摘牌表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.8.17 Key Key_1 of the table 摘牌表

5.2.1.8.17.1 Card of the key Key_1 of the table 摘牌表

Name	Key_1
Code	Key_1
Table	摘牌表

5.2.1.8.17.2 Code preview of the key Key_1 of the table 摘牌表

```
use coal_trading;

alter table ct_zp
   drop primary key;
```

5.2.1.8.17.3 List of columns of the table key Key_1

Name	*Code*
摘牌ID	id

5.2.1.8.17.4 List of all dependencies of the table key Key_1

Name	*Code*	*Class Name*
RZ_REF_ZP	RZ_REF_ZP	Reference

5.2.1.8.17.5 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.8.18 List of indexes of the table 摘牌表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_ZP_USER_ID	Index_ZP_USER_ID					
Index_ZP_REQ_ID	Index_ZP_REQ_ID					

5.2.1.8.19 Index Index_ZP_USER_ID of the table 摘牌表

5.2.1.8.19.1 Card of the index Index_ZP_USER_ID of the table 摘牌表

Name	Index_ZP_USER_ID
Code	Index_ZP_USER_ID
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	摘牌表

5.2.1.8.19.2 Code preview of the index Index_ZP_USER_ID of the table 摘牌表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_ZP_USER_ID                                      */
/*==============================================================*/
create index Index_ZP_USER_ID on ct_zp
(
   user_id
);
```

5.2.1.8.19.3 List of index columns of the table index Index_ZP_USER_ID

Name	*Code*	*Sort*
摘牌用户ID	user_id	Ascending

5.2.1.8.19.4 List of extended attributes of the table index Index_ZP_USER_ID

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.8.20 Index Index_ZP_REQ_ID of the table 摘牌表

5.2.1.8.20.1 Card of the index Index_ZP_REQ_ID of the table 摘牌表

Name	Index_ZP_REQ_ID
Code	Index_ZP_REQ_ID
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	摘牌表

5.2.1.8.20.2 Code preview of the index Index_ZP_REQ_ID of the table 摘牌表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_ZP_REQ_ID                                       */
/*==============================================================*/
create index Index_ZP_REQ_ID on ct_zp
(
   req_id
);
```

5.2.1.8.20.3 List of index columns of the table index Index_ZP_REQ_ID

Name	*Code*	*Sort*
需求ID	req_id	Ascending

5.2.1.8.20.4 List of extended attributes of the table index Index_ZP_REQ_ID

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.9 Table 新闻资讯表

5.2.1.9.1 Card of table 新闻资讯表

Name	新闻资讯表
Code	ct_news
DBMS	MySQL 5.7

5.2.1.9.2 Check constraint name of the table 新闻资讯表

TK_ct_news

5.2.1.9.3 Server validation rule of the table 新闻资讯表

%RULES%

5.2.1.9.4 Options of the table 新闻资讯表

engine = InnoDB

5.2.1.9.5 End script of the table 新闻资讯表

```
INSERT INTO ct_news(id, title, content, status, author_id, auditor_id)
VALUES
(1, "草稿资讯", "草稿资讯的内容", 1, 2, NULL),
(2, "审核中资讯", "审核中资讯的内容", 2, 2, 3),
(3, "审核驳回资讯", "审核驳回资讯的内容", 3, 2, 3),
```

```
(4, "发布的资讯", "发布的资讯的内容", 4, 2, 3),
(5, "撤销的资讯", "撤销的资讯的内容", 5, 2, 3);
```

5.2.1.9.6 Code preview of the table 新闻资讯表

```
use coal_trading;

drop table if exists ct_news;

/*==============================================================*/
/* Table: ct_news                                               */
/*==============================================================*/
create table ct_news
(
   id                   bigint(20) not null auto_increment comment '新闻ID',
   title                varchar(20) not null comment '新闻标题',
   content              text not null comment '内容',
   date                 datetime default CURRENT_TIMESTAMP comment '创建时间',
   status               enum('1','2','3','4','5') not null comment '状态：
         1. 草稿
         2. 审核中
         3. 驳回（审核不通过）
         4. 发布
         5. 撤销（隐藏）
         删除（记录直接没了）',
   author_id            bigint(20) not null comment '编写人员',
   auditor_id           bigint(20) comment '审核人员',
   audit_opinion        varchar(255) comment '审核意见',
   primary key (id)
)
engine = InnoDB;

INSERT INTO ct_news(id, title, content, status, author_id, auditor_id)
VALUES
(1, "草稿资讯", "草稿资讯的内容", 1, 2, NULL),
(2, "审核中资讯", "审核中资讯的内容", 2, 2, 3),
(3, "审核驳回资讯", "审核驳回资讯的内容", 3, 2, 3),
(4, "发布的资讯", "发布的资讯的内容", 4, 2, 3),
(5, "撤销的资讯", "撤销的资讯的内容", 5, 2, 3);

/*==============================================================*/
/* Index: Index_news_id                                         */
/*==============================================================*/
create unique index Index_news_id on ct_news
(
   id
);

alter table ct_news add constraint FK_NEWS_REF_USER_1 foreign key (author_id)
      references ct_users (id) on delete restrict on update restrict;

alter table ct_news add constraint FK_NEWS_REF_USER_2 foreign key (auditor_id)
      references ct_users (id) on delete restrict on update restrict;
```

5.2.1.9.7 List of diagrams containing the table 新闻资讯表

Name	*Code*
国煤交易系统	pdp

5.2.1.9.8 List of outgoing references of the table 新闻资讯表

Name	*Code*	*Foreign Key Columns*
NEWS_REF_USER_1	NEWS_REF_USER_1	编写人员

Name	*Code*	*Foreign Key Columns*
NEWS_REF_USER_2	NEWS_REF_USER_2	审核人员

5.2.1.9.9 List of all dependencies of the table 新闻资讯表

Name	*Code*	*Class Name*
NEWS_REF_USER_1	NEWS_REF_USER_1	Reference
NEWS_REF_USER_2	NEWS_REF_USER_2	Reference

5.2.1.9.10 List of extended attributes of the table 新闻资讯表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.9.11 List of columns of the table 新闻资讯表

Name	*Code*
新闻ID	id
新闻标题	title
内容	content
创建时间	date
状态	status
编写人员	author_id
审核人员	auditor_id
审核意见	audit_opinion

5.2.1.9.12 Column 新闻ID of the table 新闻资讯表

5.2.1.9.12.1 Card of the column 新闻ID of the table 新闻资讯表

Name	新闻ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.9.12.2 Check constraint name of the column 新闻ID of the table 新闻资讯表

CK_id

5.2.1.9.12.3 Check of the column 新闻ID of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.12.4 Server validation rule of the column 新闻ID of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.12.5 List of all dependencies of the table column 新闻ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
新闻ID	id	Index Column

5.2.1.9.12.6 List of extended attributes of the table column 新闻ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.13 Column 新闻标题 of the table 新闻资讯表

5.2.1.9.13.1 Card of the column 新闻标题 of the table 新闻资讯表

Name	新闻标题
Code	title
Data Type	varchar(20)
Mandatory	Yes

5.2.1.9.13.2 Check constraint name of the column 新闻标题 of the table 新闻资讯表

CK_title

5.2.1.9.13.3 Check of the column 新闻标题 of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.13.4 Server validation rule of the column 新闻标题 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.13.5 List of extended attributes of the table column 新闻标题

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.14 Column 内容 of the table 新闻资讯表

5.2.1.9.14.1 Card of the column 内容 of the table 新闻资讯表

Name	内容
Code	content
Data Type	text
Mandatory	Yes

5.2.1.9.14.2 Check constraint name of the column 内容 of the table 新闻资讯表

CK_content

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.14.4 Server validation rule of the column 内容 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.14.5 List of extended attributes of the table column 内容

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.15 Column 创建时间 of the table 新闻资讯表

5.2.1.9.15.1 Card of the column 创建时间 of the table 新闻资讯表

Name	创建时间
Code	date
Data Type	datetime
Mandatory	No

5.2.1.9.15.2 Check constraint name of the column 创建时间 of the table 新闻资讯表

CK_date

5.2.1.9.15.3 Check of the column 创建时间 of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	CURRENT_TIMESTAMP
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.15.4 Server validation rule of the column 创建时间 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.15.5 List of extended attributes of the table column 创建时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.16 Column 状态 of the table 新闻资讯表

5.2.1.9.16.1 Card of the column 状态 of the table 新闻资讯表

Name	状态
Code	status
Data Type	enum('1','2','3','4','5')
Mandatory	Yes

5.2.1.9.16.2 Check constraint name of the column 状态 of the table 新闻资讯表

CK_status

5.2.1.9.16.3 Check of the column 状态 of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.16.4 Server validation rule of the column 状态 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.16.5 List of extended attributes of the table column 状态

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.17 Column 编写人员 of the table 新闻资讯表

5.2.1.9.17.1 Card of the column 编写人员 of the table 新闻资讯表

Name	编写人员
Code	author_id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.9.17.2 Check constraint name of the column 编写人员 of the table 新闻资讯表

CK_author_id

5.2.1.9.17.3 Check of the column 编写人员 of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.17.4 Server validation rule of the column 编写人员 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.17.5 List of all dependencies of the table column 编写人员

Name	*Code*	*Class Name*
?	?	Reference Join

5.2.1.9.17.6 List of extended attributes of the table column 编写人员

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.18 Column 审核人员 of the table 新闻资讯表

5.2.1.9.18.1 Card of the column 审核人员 of the table 新闻资讯表

Name	审核人员
Code	auditor_id
Data Type	bigint(20)
Mandatory	No

5.2.1.9.18.2 Check constraint name of the column 审核人员 of the table 新闻资讯表

CK_auditor_id

5.2.1.9.18.3 Check of the column 审核人员 of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.18.4 Server validation rule of the column 审核人员 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.18.5 List of all dependencies of the table column 审核人员

Name	*Code*	*Class Name*
?	?	Reference Join

5.2.1.9.18.6 List of extended attributes of the table column 审核人员

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.19 Column 审核意见 of the table 新闻资讯表

5.2.1.9.19.1 Card of the column 审核意见 of the table 新闻资讯表

Name	审核意见

Code	audit_opinion
Data Type	varchar(255)
Mandatory	No

5.2.1.9.19.2 Check constraint name of the column 审核意见 of the table 新闻资讯表

CK_audit_opinion

5.2.1.9.19.3 Check of the column 审核意见 of the table 新闻资讯表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.9.19.4 Server validation rule of the column 审核意见 of the table 新闻资讯表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.9.19.5 List of extended attributes of the table column 审核意见

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.9.20 List of keys of the table 新闻资讯表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.9.21 Key Key_1 of the table 新闻资讯表

5.2.1.9.21.1 Card of the key Key_1 of the table 新闻资讯表

Name	Key_1
Code	Key_1
Table	新闻资讯表

5.2.1.9.21.2 Code preview of the key Key_1 of the table 新闻资讯表

```
use coal_trading;

alter table ct_news
   drop primary key;
```

5.2.1.9.21.3 List of columns of the table key Key_1

Name	*Code*
新闻ID	id

5.2.1.9.21.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.9.22 List of indexes of the table 新闻资讯表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_news_id	Index_news_id	X				

5.2.1.9.23 Index Index_news_id of the table 新闻资讯表

5.2.1.9.23.1 Card of the index Index_news_id of the table 新闻资讯表

Name	Index_news_id
Code	Index_news_id
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	新闻资讯表

5.2.1.9.23.2 Code preview of the index Index_news_id of the table 新闻资讯表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_news_id                                         */
/*==============================================================*/
create unique index Index_news_id on ct_news
(
   id
);
```

5.2.1.9.23.3 List of index columns of the table index Index_news_id

Name	*Code*	*Sort*
新闻ID	id	Ascending

5.2.1.9.23.4 List of extended attributes of the table index Index_news_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.10 Table 权限表

5.2.1.10.1 Card of table 权限表

Name	权限表
Code	ct_permissions
DBMS	MySQL 5.7

5.2.1.10.2 Check constraint name of the table 权限表

TK_ct_permissions

5.2.1.10.3 Server validation rule of the table 权限表

%RULES%

5.2.1.10.4 Options of the table 权限表

engine = InnoDB

5.2.1.10.5 End script of the table 权限表

```
/*
权限：
1. 超级管理员
2. 资讯编辑权限
3. 资讯审核权限
4. 资讯维护权限
5. 注册用户审核权限
6. 交易审核权限
7. 用户创建权限
8. 挂牌权限
9. 挂牌权限
10.信息编辑权限
*/
INSERT INTO ct_permissions VALUES(1, "SUPER_ADMIN"),
(2, "NEWS_EDITOR"),
(3, "NEWS_AUDITOR"),
(4, "NEWS_MANAGER"),
(5, "USER_REG_AUDITOR"),
(6, "TRADE_AUDITOR"),
(7, "USER_ADD"),
(8, "PUB_SALE"),
(9, "PUB_BUY");
```

5.2.1.10.6 Code preview of the table 权限表

```
use coal_trading;

drop table if exists ct_permissions;

/*==============================================================*/
/* Table: ct_permissions                                        */
/*==============================================================*/
create table ct_permissions
(
   id                   bigint(20) not null comment '权限ID',
   name                 varchar(15) comment '权限名',
   primary key (id)
)
engine = InnoDB;

alter table ct_permissions comment '权限：
1. 资讯编辑权限
2. 资讯审核权限
3. 资讯维护权限
4.';

/*
权限：
1. 超级管理员
2. 资讯编辑权限
3. 资讯审核权限
4. 资讯维护权限
5. 注册用户审核权限
6. 交易审核权限
7. 用户创建权限
8. 挂牌权限
9. 挂牌权限
10.信息编辑权限
*/
INSERT INTO ct_permissions VALUES(1, "SUPER_ADMIN"),
(2, "NEWS_EDITOR"),
(3, "NEWS_AUDITOR"),
```

```
(4, "NEWS_MANAGER"),
(5, "USER_REG_AUDITOR"),
(6, "TRADE_AUDITOR"),
(7, "USER_ADD"),
(8, "PUB_SALE"),
(9, "PUB_BUY");

/*==============================================================*/
/* Index: Index_pri                                             */
/*==============================================================*/
create unique index Index_pri on ct_permissions
(
   id
);
```

5.2.1.10.7 List of diagrams containing the table 权限表

Name	*Code*
国煤交易系统	pdp

5.2.1.10.8 List of incoming references of the table 权限表

Name	*Code*
RP_REF_PERMISSION	RP_REF_PERMISSION

5.2.1.10.9 List of all dependencies of the table 权限表

Name	*Code*	*Class Name*
RP_REF_PERMISSION	RP_REF_PERMISSION	Reference

5.2.1.10.10 List of extended attributes of the table 权限表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.10.11 List of columns of the table 权限表

Name	*Code*
权限ID	id
权限名	name

5.2.1.10.12 Column 权限ID of the table 权限表

5.2.1.10.12.1 Card of the column 权限ID of the table 权限表

Name	权限ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.10.12.2 Check constraint name of the column 权限ID of the table 权限表

CK_id

5.2.1.10.12.3 Check of the column 权限ID of the table 权限表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No

List Of Values	

5.2.1.10.12.4 Server validation rule of the column 权限ID of the table 权限表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.10.12.5 List of all dependencies of the table column 权限ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
权限ID	id	Index Column
?	?	Reference Join

5.2.1.10.12.6 List of extended attributes of the table column 权限ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.10.13 Column 权限名 of the table 权限表

5.2.1.10.13.1 Card of the column 权限名 of the table 权限表

Name	权限名
Code	name
Data Type	varchar(15)
Mandatory	No

5.2.1.10.13.2 Check constraint name of the column 权限名 of the table 权限表

CK_name

5.2.1.10.13.3 Check of the column 权限名 of the table 权限表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.10.13.4 Server validation rule of the column 权限名 of the table 权限表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.10.13.5 List of extended attributes of the table column 权限名

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.10.14 List of keys of the table 权限表

Name	*Code*	*Primary*

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.10.15 Key Key_1 of the table 权限表

5.2.1.10.15.1 Card of the key Key_1 of the table 权限表

Name	Key_1
Code	Key_1
Table	权限表

5.2.1.10.15.2 Code preview of the key Key_1 of the table 权限表

```
use coal_trading;

alter table ct_permissions
   drop primary key;
```

5.2.1.10.15.3 List of columns of the table key Key_1

Name	*Code*
权限ID	id

5.2.1.10.15.4 List of all dependencies of the table key Key_1

Name	*Code*	*Class Name*
RP_REF_PERMISSION	RP_REF_PERMISSION	Reference

5.2.1.10.15.5 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.10.16 List of indexes of the table 权限表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_pri	Index_pri	X				

5.2.1.10.17 Index Index_pri of the table 权限表

5.2.1.10.17.1 Card of the index Index_pri of the table 权限表

Name	Index_pri
Code	Index_pri
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	权限表

5.2.1.10.17.2 Code preview of the index Index_pri of the table 权限表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_pri                                             */
/*==============================================================*/
```

```
create unique index Index_pri on ct_permissions
(
   id
);
```

5.2.1.10.17.3 List of index columns of the table index Index_pri

Name	*Code*	*Sort*
权限ID	id	Ascending

5.2.1.10.17.4 List of extended attributes of the table index Index_pri

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.11 Table 用户表

5.2.1.11.1 Card of table 用户表

Name	用户表
Code	ct_users
DBMS	MySQL 5.7

5.2.1.11.2 Check constraint name of the table 用户表

TK_ct_users

5.2.1.11.3 Server validation rule of the table 用户表

%RULES%

5.2.1.11.4 Options of the table 用户表

engine = InnoDB

5.2.1.11.5 End script of the table 用户表

```
INSERT INTO `ct_users` (`id`, `login`, `pass`, `nick`, `email`)
VALUES
(1, 'superadmin', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '超级管理员', "1@mail.com"),
(2, 'newseditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '资讯编辑员1', '2@mail.com'),
(3, 'newsauditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '资讯审核员1', '3@mail.com'),
(4, 'newsmanager1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '资讯维护员1',
"4@mail.com"),
(5, 'userregauditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '注册用户审核员1',
"5@mail.com"),
(6, 'tradeauditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '交易审核员1',
"6@mail.com"),
(7, 'saleuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '供应商用户1', "7@mail.com"),
(8, 'salemoneyuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '供应商财务用户1',
"8@mail.com"),
(9, 'buyuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '采购商用户', "9@mail.com"),
(10, 'buymoneyuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '采购商财务用户1',
"10@mail.com");
```

5.2.1.11.6 Code preview of the table 用户表

```
use coal_trading;

drop table if exists ct_users;

/*==============================================================*/
/* Table: ct_users                                              */
/*==============================================================*/
create table ct_users
(
   id                   bigint(20) not null auto_increment comment '用户ID（唯一）',
```

```
  login               varchar(20) not null comment '登录名（唯一）',
  pass                varchar(100) comment '用户密码：
        要经过加密',
  nick                varchar(20) comment '用户昵称',
  email               varchar(20) comment '用户邮箱（唯一）',
  registered          datetime default CURRENT_TIMESTAMP comment '创建时间',
  status              enum('1','2') not null default '2' comment '用户状态
        1. 用户未激活
        2. 已激活',
  primary key (id)
)
engine = InnoDB;

alter table ct_users comment '存储的用户类型：
1. 管理员
2. 交易用户
3. 财务用户
';

INSERT INTO `ct_users` (`id`, `login`, `pass`, `nick`, `email`)
VALUES
(1, 'superadmin', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '超级管理员', "1@mail.com"),
(2, 'newseditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '资讯编辑员1', '2@mail.com'),
(3, 'newsauditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '资讯审核员1', '3@mail.com'),
(4, 'newsmanager1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '资讯维护员1',
"4@mail.com"),
(5, 'userregauditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '注册用户审核员1',
"5@mail.com"),
(6, 'tradeauditor1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '交易审核员1',
"6@mail.com"),
(7, 'saleuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '供应商用户1', "7@mail.com"),
(8, 'salemoneyuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '供应商财务用户1',
"8@mail.com"),
(9, 'buyuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '采购商用户', "9@mail.com"),
(10, 'buymoneyuser1', '$2a$10$.y9u24yrwyy6aw96ny/HVOgPxa.z/WuWzmBKVP0ELbE7w5U.9/EA2', '采购商财务用户1',
"10@mail.com");

/*==============================================================*/
/* Index: Index_user_login                                      */
/*==============================================================*/
create unique index Index_user_login on ct_users
(
  login
);

/*==============================================================*/
/* Index: Index_user_email                                      */
/*==============================================================*/
create index Index_user_email on ct_users
(
  email
);
```

5.2.1.11.7 List of diagrams containing the table 用户表

Name	*Code*
国煤交易系统	pdp

5.2.1.11.8 List of incoming references of the table 用户表

Name	*Code*
CU_REF_USER	CU_REF_USER

Name	*Code*
FL_REF_USER	FL_REF_USER
FU_REF_USER_1	FU_REF_USER_1
FU_REF_USER_2	FU_REF_USER_2
NEWS_REF_USER_1	NEWS_REF_USER_1
NEWS_REF_USER_2	NEWS_REF_USER_2
ORDER_REF_USER	ORDER_REF_USER
REQ_REF_USER	REQ_REF_USER
REQ_REF_USER_2	REQ_REF_USER_2
UM_REF_USER_1	UM_REF_USER_1
UM_REF_USER_2	UM_REF_USER_2
UR_REF_USER	UR_REF_USER

5.2.1.11.9 List of all dependencies of the table 用户表

Name	*Code*	*Class Name*
CU_REF_USER	CU_REF_USER	Reference
FL_REF_USER	FL_REF_USER	Reference
FU_REF_USER_1	FU_REF_USER_1	Reference
FU_REF_USER_2	FU_REF_USER_2	Reference
NEWS_REF_USER_1	NEWS_REF_USER_1	Reference
NEWS_REF_USER_2	NEWS_REF_USER_2	Reference
ORDER_REF_USER	ORDER_REF_USER	Reference
REQ_REF_USER	REQ_REF_USER	Reference
REQ_REF_USER_2	REQ_REF_USER_2	Reference
UM_REF_USER_1	UM_REF_USER_1	Reference
UM_REF_USER_2	UM_REF_USER_2	Reference
UR_REF_USER	UR_REF_USER	Reference

5.2.1.11.10 List of extended attributes of the table 用户表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.11.11 List of columns of the table 用户表

Name	*Code*
用户ID	id
登录名	login
用户密码	pass
用户昵称	nick
用户邮箱	email
创建时间	registered
用户状态	status

5.2.1.11.12 Column 用户ID of the table 用户表

5.2.1.11.12.1 Card of the column 用户ID of the table 用户表

Name	用户ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.11.12.2 Check constraint name of the column 用户ID of the table 用户表

CK_id

5.2.1.11.12.3 Check of the column 用户ID of the table 用户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.11.12.4 Server validation rule of the column 用户ID of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.12.5 List of all dependencies of the table column 用户ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join

5.2.1.11.12.6 List of extended attributes of the table column 用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.13 Column 登录名 of the table 用户表

5.2.1.11.13.1 Card of the column 登录名 of the table 用户表

Name	登录名
Code	login
Data Type	varchar(20)
Mandatory	Yes

5.2.1.11.13.2 Check constraint name of the column 登录名 of the table 用户表

CK_login

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.11.13.4 Server validation rule of the column 登录名 of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.13.5 List of all dependencies of the table column 登录名

Name	*Code*	*Class Name*
登录名	login	Index Column

5.2.1.11.13.6 List of extended attributes of the table column 登录名

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.14 Column 用户密码 of the table 用户表

5.2.1.11.14.1 Card of the column 用户密码 of the table 用户表

Name	用户密码
Code	pass
Data Type	varchar(100)
Mandatory	No

5.2.1.11.14.2 Check constraint name of the column 用户密码 of the table 用户表

CK_pass

5.2.1.11.14.3 Check of the column 用户密码 of the table 用户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.11.14.4 Server validation rule of the column 用户密码 of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.14.5 List of extended attributes of the table column 用户密码

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.15 Column 用户昵称 of the table 用户表

5.2.1.11.15.1 Card of the column 用户昵称 of the table 用户表

Name	用户昵称
Code	nick
Data Type	varchar(20)
Mandatory	No

5.2.1.11.15.2 Check constraint name of the column 用户昵称 of the table 用户表

CK_nick

5.2.1.11.15.3 Check of the column 用户昵称 of the table 用户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.11.15.4 Server validation rule of the column 用户昵称 of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.15.5 List of extended attributes of the table column 用户昵称

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.16 Column 用户邮箱 of the table 用户表

5.2.1.11.16.1 Card of the column 用户邮箱 of the table 用户表

Name	用户邮箱
Code	email
Data Type	varchar(20)
Mandatory	No

5.2.1.11.16.2 Check constraint name of the column 用户邮箱 of the table 用户表

CK_email

5.2.1.11.16.3 Check of the column 用户邮箱 of the table 用户表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	

Cannot Modify	No
List Of Values	

5.2.1.11.16.4 Server validation rule of the column 用户邮箱 of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.16.5 List of all dependencies of the table column 用户邮箱

Name	*Code*	*Class Name*
用户邮箱	email	Index Column

5.2.1.11.16.6 List of extended attributes of the table column 用户邮箱

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.17 Column 创建时间 of the table 用户表

5.2.1.11.17.1 Card of the column 创建时间 of the table 用户表

Name	创建时间
Code	registered
Data Type	datetime
Mandatory	No

5.2.1.11.17.2 Check constraint name of the column 创建时间 of the table 用户表

CK_registered

5.2.1.11.17.3 Check of the column 创建时间 of the table 用户表

Minimum Value	
Maximum Value	
Default Value	CURRENT_TIMESTAMP
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.11.17.4 Server validation rule of the column 创建时间 of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.17.5 List of extended attributes of the table column 创建时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.18 Column 用户状态 of the table 用户表

Name	用户状态
Code	status
Data Type	enum('1','2')
Mandatory	Yes

5.2.1.11.18.2 Check constraint name of the column 用户状态 of the table 用户表

CK_status

5.2.1.11.18.3 Check of the column 用户状态 of the table 用户表

Minimum Value	
Maximum Value	
Default Value	2
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.11.18.4 Server validation rule of the column 用户状态 of the table 用户表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.11.18.5 List of extended attributes of the table column 用户状态

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.11.19 List of keys of the table 用户表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.11.20 Key Key_1 of the table 用户表

5.2.1.11.20.1 Card of the key Key_1 of the table 用户表

Name	Key_1
Code	Key_1
Table	用户表

5.2.1.11.20.2 Code preview of the key Key_1 of the table 用户表

```
use coal_trading;

alter table ct_users
   drop primary key;
```

5.2.1.11.20.3 List of columns of the table key Key_1

Name	*Code*
用户ID	id

5.2.1.11.20.4 List of all dependencies of the table key Key_1

Name	*Code*	*Class Name*

Name	*Code*	*Class Name*
CU_REF_USER	CU_REF_USER	Reference
FL_REF_USER	FL_REF_USER	Reference
FU_REF_USER_1	FU_REF_USER_1	Reference
FU_REF_USER_2	FU_REF_USER_2	Reference
NEWS_REF_USER_1	NEWS_REF_USER_1	Reference
NEWS_REF_USER_2	NEWS_REF_USER_2	Reference
ORDER_REF_USER	ORDER_REF_USER	Reference
REQ_REF_USER	REQ_REF_USER	Reference
REQ_REF_USER_2	REQ_REF_USER_2	Reference
UM_REF_USER_1	UM_REF_USER_1	Reference
UM_REF_USER_2	UM_REF_USER_2	Reference
UR_REF_USER	UR_REF_USER	Reference

5.2.1.11.20.5 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.11.21 List of indexes of the table 用户表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_user_login	Index_user_login	X				
Index_user_email	Index_user_email					

5.2.1.11.22 Index Index_user_login of the table 用户表

5.2.1.11.22.1 Card of the index Index_user_login of the table 用户表

Name	Index_user_login
Code	Index_user_login
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	用户表

5.2.1.11.22.2 Code preview of the index Index_user_login of the table 用户表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_user_login                                      */
/*==============================================================*/
create unique index Index_user_login on ct_users
(
   login
);
```

5.2.1.11.22.3 List of index columns of the table index Index_user_login

Name	*Code*	*Sort*
登录名	login	Ascending

5.2.1.11.22.4 List of extended attributes of the table index Index_user_login

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.11.23 Index Index_user_email of the table 用户表

5.2.1.11.23.1 Card of the index Index_user_email of the table 用户表

Name	Index_user_email
Code	Index_user_email
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	用户表

5.2.1.11.23.2 Code preview of the index Index_user_email of the table 用户表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_user_email                                      */
/*==============================================================*/
create index Index_user_email on ct_users
(
   email
);
```

5.2.1.11.23.3 List of index columns of the table index Index_user_email

Name	*Code*	*Sort*
用户邮箱	email	Ascending

5.2.1.11.23.4 List of extended attributes of the table index Index_user_email

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.12 Table 用户角色表

5.2.1.12.1 Card of table 用户角色表

Name	用户角色表
Code	ct_user_role_relationships
DBMS	MySQL 5.7

5.2.1.12.2 Check constraint name of the table 用户角色表

TK_ct_user_role_relationships

5.2.1.12.3 Server validation rule of the table 用户角色表

%RULES%

5.2.1.12.4 Options of the table 用户角色表

engine = InnoDB

5.2.1.12.5 End script of the table 用户角色表

```
INSERT INTO ct_user_role_relationships(`user_id`, `role_id`)
VALUES(1, 1),(2,2),(3,3),(4,4),(5,5),(6,6),(7, 7),(8,9),(9,8),(10,9);
```

5.2.1.12.6 Code preview of the table 用户角色表

```
use coal_trading;

drop table if exists ct_user_role_relationships;

/*==============================================================*/
/* Table: ct_user_role_relationships                            */
/*==============================================================*/
create table ct_user_role_relationships
(
  user_id              bigint(20) not null comment '用户ID',
  role_id              bigint(20) not null comment '角色ID',
  primary key (role_id, user_id)
)
engine = InnoDB;

INSERT INTO ct_user_role_relationships(`user_id`, `role_id`)
VALUES(1, 1),(2,2),(3,3),(4,4),(5,5),(6,6),(7, 7),(8,9),(9,8),(10,9);

/*==============================================================*/
/* Index: Index_user_role                                       */
/*==============================================================*/
create index Index_user_role on ct_user_role_relationships
(
  role_id
);

/*==============================================================*/
/* Index: Index_user_id                                         */
/*==============================================================*/
create unique index Index_user_id on ct_user_role_relationships
(
  user_id
);

alter table ct_user_role_relationships add constraint FK_UR_REF_ROLE foreign key (role_id)
    references ct_userrole (id) on delete restrict on update restrict;

alter table ct_user_role_relationships add constraint FK_UR_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.2.1.12.7 List of diagrams containing the table 用户角色表

Name	*Code*
国煤交易系统	pdp

5.2.1.12.8 List of outgoing references of the table 用户角色表

Name	*Code*	*Foreign Key Columns*
UR_REF_ROLE	UR_REF_ROLE	角色ID
UR_REF_USER	UR_REF_USER	用户ID

5.2.1.12.9 List of all dependencies of the table 用户角色表

Name	*Code*	*Class Name*
UR_REF_ROLE	UR_REF_ROLE	Reference
UR_REF_USER	UR_REF_USER	Reference

5.2.1.12.10 List of extended attributes of the table 用户角色表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.12.11 List of columns of the table 用户角色表

Name	*Code*
用户ID	user_id
角色ID	role_id

5.2.1.12.12 Column 用户ID of the table 用户角色表

5.2.1.12.12.1 Card of the column 用户ID of the table 用户角色表

Name	用户ID
Code	user_id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.12.12.2 Check constraint name of the column 用户ID of the table 用户角色表

CK_user_id

5.2.1.12.12.3 Check of the column 用户ID of the table 用户角色表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.12.12.4 Server validation rule of the column 用户ID of the table 用户角色表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.12.12.5 List of all dependencies of the table column 用户ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
用户ID	user_id	Index Column
?	?	Reference Join

5.2.1.12.12.6 List of extended attributes of the table column 用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.12.13 Column 角色ID of the table 用户角色表

5.2.1.12.13.1 Card of the column 角色ID of the table 用户角色表

Name	角色ID
Code	role_id

Data Type	bigint(20)
Mandatory	Yes

5.2.1.12.13.2 Check constraint name of the column 角色ID of the table 用户角色表

CK_role_id

5.2.1.12.13.3 Check of the column 角色ID of the table 用户角色表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.12.13.4 Server validation rule of the column 角色ID of the table 用户角色表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.12.13.5 List of all dependencies of the table column 角色ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
角色ID	role_id	Index Column
?	?	Reference Join

5.2.1.12.13.6 List of extended attributes of the table column 角色ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.12.14 List of keys of the table 用户角色表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.12.15 Key Key_1 of the table 用户角色表

5.2.1.12.15.1 Card of the key Key_1 of the table 用户角色表

Name	Key_1
Code	Key_1
Table	用户角色表

5.2.1.12.15.2 Code preview of the key Key_1 of the table 用户角色表

```
use coal_trading;

alter table ct_user_role_relationships
   drop primary key;
```

5.2.1.12.15.3 List of columns of the table key Key_1

Name	*Code*

Name	*Code*
角色ID	role_id
用户ID	user_id

5.2.1.12.15.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	true	MySQL 5.7

5.2.1.12.16 List of indexes of the table 用户角色表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
用户角色索引	Index_user_role					
Index_user_id	Index_user_id	X				

5.2.1.12.17 Index 用户角色索引 of the table 用户角色表

5.2.1.12.17.1 Card of the index 用户角色索引 of the table 用户角色表

Name	用户角色索引
Code	Index_user_role
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	用户角色表

5.2.1.12.17.2 Code preview of the index 用户角色索引 of the table 用户角色表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_user_role                                       */
/*==============================================================*/
create index Index_user_role on ct_user_role_relationships
(
   role_id
);
```

5.2.1.12.17.3 List of index columns of the table index 用户角色索引

Name	*Code*	*Sort*
角色ID	role_id	Ascending

5.2.1.12.17.4 List of extended attributes of the table index 用户角色索引

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.12.18 Index Index_user_id of the table 用户角色表

5.2.1.12.18.1 Card of the index Index_user_id of the table 用户角色表

Name	Index_user_id
Code	Index_user_id
Unique	Yes

Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	用户角色表

5.2.1.12.18.2 Code preview of the index Index_user_id of the table 用户角色表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_user_id                                         */
/*==============================================================*/
create unique index Index_user_id on ct_user_role_relationships
(
   user_id
);
```

5.2.1.12.18.3 List of index columns of the table index Index_user_id

Name	*Code*	*Sort*
用户ID	user_id	Ascending

5.2.1.12.18.4 List of extended attributes of the table index Index_user_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.13 Table 网站消息

5.2.1.13.1 Card of table 网站消息

Name	网站消息
Code	ct_website_message
DBMS	MySQL 5.7

5.2.1.13.2 Check constraint name of the table 网站消息

TK_ct_website_message

5.2.1.13.3 Server validation rule of the table 网站消息

%RULES%

5.2.1.13.4 Options of the table 网站消息

engine = InnoDB

5.2.1.13.5 Code preview of the table 网站消息

```
use coal_trading;

drop table if exists ct_website_message;

/*==============================================================*/
/* Table: ct_website_message                                    */
/*==============================================================*/
create table ct_website_message
(
   id              bigint(20) not null auto_increment comment '新闻主键',
   title           varchar(50) not null comment '站内信标题',
   content           varchar(1024) not null comment '站内信内容',
```

```
  modified            datetime default CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP comment '修改时间',
  msg_type            smallint not null comment '消息类型（1.系统消息）',
  created             datetime default CURRENT_TIMESTAMP comment '发信时间',
  from_userid         bigint(20) comment '发信人用户ID',
  from_username       varchar(128) comment '发信人用户名',
  to_userid           bigint(20) not null comment '收信人用户ID',
  to_username         varchar(128) comment '收信人用户名',
  read_status         enum('1','2') not null default '1' comment '是否已读（1. 未读；2.已读）',
  primary key (id)
)
engine = InnoDB;

/*==============================================================*/
/* Index: Index_to_userid                                       */
/*==============================================================*/
create index Index_to_userid on ct_website_message
(
  to_userid
);

alter table ct_website_message add constraint FK_UM_REF_USER_1 foreign key (from_userid)
    references ct_users (id) on delete restrict on update restrict;

alter table ct_website_message add constraint FK_UM_REF_USER_2 foreign key (to_userid)
    references ct_users (id) on delete restrict on update restrict;
```

5.2.1.13.6 List of diagrams containing the table 网站消息

Name	*Code*
国煤交易系统	pdp

5.2.1.13.7 List of outgoing references of the table 网站消息

Name	*Code*	*Foreign Key Columns*
UM_REF_USER_1	UM_REF_USER_1	发信人用户ID
UM_REF_USER_2	UM_REF_USER_2	收信人ID

5.2.1.13.8 List of all dependencies of the table 网站消息

Name	*Code*	*Class Name*
UM_REF_USER_1	UM_REF_USER_1	Reference
UM_REF_USER_2	UM_REF_USER_2	Reference

5.2.1.13.9 List of extended attributes of the table 网站消息

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.13.10 List of columns of the table 网站消息

Name	*Code*
新闻ID	id
站内信标题	title
站内信内容	content
修改时间	modified
消息类型	msg_type
发信时间	created
发信人用户ID	from_userid
发信人用户名	from_username
收信人ID	to_userid

Name	*Code*
收信人用户名	to_username
是否已读	read_status

5.2.1.13.11 Column 新闻ID of the table 网站消息

5.2.1.13.11.1 Card of the column 新闻ID of the table 网站消息

Name	新闻ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.13.11.2 Check constraint name of the column 新闻ID of the table 网站消息

CK_id

5.2.1.13.11.3 Check of the column 新闻ID of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.11.4 Server validation rule of the column 新闻ID of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.11.5 List of all dependencies of the table column 新闻ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key

5.2.1.13.11.6 List of extended attributes of the table column 新闻ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.12 Column 站内信标题 of the table 网站消息

5.2.1.13.12.1 Card of the column 站内信标题 of the table 网站消息

Name	站内信标题
Code	title
Data Type	varchar(50)
Mandatory	Yes

5.2.1.13.12.2 Check constraint name of the column 站内信标题 of the table 网站消息

CK_title

5.2.1.13.12.3 Check of the column 站内信标题 of the table 网站消息

Minimum Value	

Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.12.4 Server validation rule of the column 站内信标题 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.12.5 List of extended attributes of the table column 站内信标题

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.13 Column 站内信内容 of the table 网站消息

5.2.1.13.13.1 Card of the column 站内信内容 of the table 网站消息

Name	站内信内容
Code	content
Data Type	varchar(1024)
Mandatory	Yes

5.2.1.13.13.2 Check constraint name of the column 站内信内容 of the table 网站消息

CK_content

5.2.1.13.13.3 Check of the column 站内信内容 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.13.4 Server validation rule of the column 站内信内容 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.13.5 List of extended attributes of the table column 站内信内容

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.14 Column 修改时间 of the table 网站消息

Name	修改时间
Code	modified
Data Type	datetime
Mandatory	No

5.2.1.13.14.2 Check constraint name of the column 修改时间 of the table 网站消息

CK_modified

5.2.1.13.14.3 Check of the column 修改时间 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.14.4 Server validation rule of the column 修改时间 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.14.5 List of extended attributes of the table column 修改时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.15 Column 消息类型 of the table 网站消息

5.2.1.13.15.1 Card of the column 消息类型 of the table 网站消息

Name	消息类型
Code	msg_type
Data Type	smallint
Mandatory	Yes

5.2.1.13.15.2 Check constraint name of the column 消息类型 of the table 网站消息

CK_msg_type

5.2.1.13.15.3 Check of the column 消息类型 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.15.4 Server validation rule of the column 消息类型 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.16 Column 发信时间 of the table 网站消息

5.2.1.13.16.1 Card of the column 发信时间 of the table 网站消息

Name	发信时间
Code	created
Data Type	datetime
Mandatory	No

5.2.1.13.16.2 Check constraint name of the column 发信时间 of the table 网站消息

CK_created

5.2.1.13.16.3 Check of the column 发信时间 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	CURRENT_TIMESTAMP
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.16.4 Server validation rule of the column 发信时间 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.16.5 List of extended attributes of the table column 发信时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.17 Column 发信人用户ID of the table 网站消息

5.2.1.13.17.1 Card of the column 发信人用户ID of the table 网站消息

Name	发信人用户ID
Code	from_userid
Data Type	bigint(20)
Mandatory	No

5.2.1.13.17.2 Check constraint name of the column 发信人用户ID of the table 网站消息

CK_from_userid

5.2.1.13.17.3 Check of the column 发信人用户ID of the table 网站消息

Minimum Value	
Maximum Value	

Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.17.4 Server validation rule of the column 发信人用户ID of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.17.5 List of all dependencies of the table column 发信人用户ID

Name	*Code*	*Class Name*
?	?	Reference Join

5.2.1.13.17.6 List of extended attributes of the table column 发信人用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.18 Column 发信人用户名 of the table 网站消息

5.2.1.13.18.1 Card of the column 发信人用户名 of the table 网站消息

Name	发信人用户名
Code	from_username
Data Type	varchar(128)
Mandatory	No

5.2.1.13.18.2 Check constraint name of the column 发信人用户名 of the table 网站消息

CK_from_username

5.2.1.13.18.3 Check of the column 发信人用户名 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.18.4 Server validation rule of the column 发信人用户名 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.18.5 List of extended attributes of the table column 发信人用户名

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.19 Column 收信人ID of the table 网站消息

5.2.1.13.19.1 Card of the column 收信人ID of the table 网站消息

Name	收信人ID
Code	to_userid
Data Type	bigint(20)
Mandatory	Yes

5.2.1.13.19.2 Check constraint name of the column 收信人ID of the table 网站消息

CK_to_userid

5.2.1.13.19.3 Check of the column 收信人ID of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.19.4 Server validation rule of the column 收信人ID of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.19.5 List of all dependencies of the table column 收信人ID

Name	*Code*	*Class Name*
收信人ID	to_userid	Index Column
?	?	Reference Join

5.2.1.13.19.6 List of extended attributes of the table column 收信人ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.20 Column 收信人用户名 of the table 网站消息

5.2.1.13.20.1 Card of the column 收信人用户名 of the table 网站消息

Name	收信人用户名
Code	to_username
Data Type	varchar(128)
Mandatory	No

5.2.1.13.20.2 Check constraint name of the column 收信人用户名 of the table 网站消息

CK_to_username

5.2.1.13.20.3 Check of the column 收信人用户名 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	
Unit	

Format	
Cannot Modify	No
List Of Values	

5.2.1.13.20.4 Server validation rule of the column 收信人用户名 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.20.5 List of extended attributes of the table column 收信人用户名

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.21 Column 是否已读 of the table 网站消息

5.2.1.13.21.1 Card of the column 是否已读 of the table 网站消息

Name	是否已读
Code	read_status
Data Type	enum('1','2')
Mandatory	Yes

5.2.1.13.21.2 Check constraint name of the column 是否已读 of the table 网站消息

CK_read_status

5.2.1.13.21.3 Check of the column 是否已读 of the table 网站消息

Minimum Value	
Maximum Value	
Default Value	1
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.13.21.4 Server validation rule of the column 是否已读 of the table 网站消息

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.13.21.5 List of extended attributes of the table column 是否已读

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.13.22 List of keys of the table 网站消息

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.13.23 Key Key_1 of the table 网站消息

5.2.1.13.23.1 Card of the key Key_1 of the table 网站消息

Name	Key_1
Code	Key_1
Table	网站消息

5.2.1.13.23.2 Code preview of the key Key_1 of the table 网站消息

```
use coal_trading;

alter table ct_website_message
   drop primary key;
```

5.2.1.13.23.3 List of columns of the table key Key_1

Name	*Code*
新闻ID	id

5.2.1.13.23.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.13.24 List of indexes of the table 网站消息

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_to_userid	Index_to_userid					

5.2.1.13.25 Index Index_to_userid of the table 网站消息

5.2.1.13.25.1 Card of the index Index_to_userid of the table 网站消息

Name	Index_to_userid
Code	Index_to_userid
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	网站消息

5.2.1.13.25.2 Code preview of the index Index_to_userid of the table 网站消息

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_to_userid                                       */
/*==============================================================*/
create index Index_to_userid on ct_website_message
(
   to_userid
);
```

5.2.1.13.25.3 List of index columns of the table index Index_to_userid

Name	*Code*	*Sort*
收信人ID	to_userid	Ascending

5.2.1.13.25.4 List of extended attributes of the table index Index_to_userid

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.14 Table 角色权限表

5.2.1.14.1 Card of table 角色权限表

Name	角色权限表
Code	ct_role_permission_relationships
DBMS	MySQL 5.7

5.2.1.14.2 Check constraint name of the table 角色权限表

TK_ct_role_permission_relationships

5.2.1.14.3 Server validation rule of the table 角色权限表

%RULES%

5.2.1.14.4 Options of the table 角色权限表

engine = InnoDB

5.2.1.14.5 End script of the table 角色权限表

```
/*role_id, permission*/
INSERT INTO ct_role_permission_relationships VALUES(1,1);
INSERT INTO ct_role_permission_relationships VALUES(1,7);
INSERT INTO ct_role_permission_relationships VALUES(2,2);
INSERT INTO ct_role_permission_relationships VALUES(3,3);
INSERT INTO ct_role_permission_relationships VALUES(4,4);
INSERT INTO ct_role_permission_relationships VALUES(5,5);
INSERT INTO ct_role_permission_relationships VALUES(6,6);
INSERT INTO ct_role_permission_relationships VALUES(7,8);
INSERT INTO ct_role_permission_relationships VALUES(8,9);
```

5.2.1.14.6 Code preview of the table 角色权限表

```
use coal_trading;

drop table if exists ct_role_permission_relationships;

/*==============================================================*/
/* Table: ct_role_permission_relationships                      */
/*==============================================================*/
create table ct_role_permission_relationships
(
   role_id              bigint(20) not null comment '角色ID',
   permission_id        bigint(20) not null comment '权限ID',
   primary key (role_id, permission_id)
)
engine = InnoDB;

alter table ct_role_permission_relationships comment '1个角色可以对应1个权限';

/*role_id, permission*/
INSERT INTO ct_role_permission_relationships VALUES(1,1);
INSERT INTO ct_role_permission_relationships VALUES(1,7);
INSERT INTO ct_role_permission_relationships VALUES(2,2);
INSERT INTO ct_role_permission_relationships VALUES(3,3);
INSERT INTO ct_role_permission_relationships VALUES(4,4);
INSERT INTO ct_role_permission_relationships VALUES(5,5);
INSERT INTO ct_role_permission_relationships VALUES(6,6);
```

```
INSERT INTO ct_role_permission_relationships VALUES(7,8);
INSERT INTO ct_role_permission_relationships VALUES(8,9);

/*==============================================================*/
/* Index: Index_role_pri_id                                     */
/*==============================================================*/
create unique index Index_role_pri_id on ct_role_permission_relationships
(
  role_id,
  permission_id
);

alter table ct_role_permission_relationships add constraint FK_RP_REF_PERMISSION foreign key (permission_id)
    references ct_permissions (id) on delete restrict on update restrict;

alter table ct_role_permission_relationships add constraint FK_RP_REF_ROLE foreign key (role_id)
    references ct_userrole (id) on delete restrict on update restrict;
```

5.2.1.14.7 List of diagrams containing the table 角色权限表

Name	*Code*
国煤交易系统	pdp

5.2.1.14.8 List of outgoing references of the table 角色权限表

Name	*Code*	*Foreign Key Columns*
RP_REF_PERMISSION	RP_REF_PERMISSION	权限ID
RP_REF_ROLE	RP_REF_ROLE	角色ID

5.2.1.14.9 List of all dependencies of the table 角色权限表

Name	*Code*	*Class Name*
RP_REF_PERMISSION	RP_REF_PERMISSION	Reference
RP_REF_ROLE	RP_REF_ROLE	Reference

5.2.1.14.10 List of extended attributes of the table 角色权限表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.14.11 List of columns of the table 角色权限表

Name	*Code*
角色ID	role_id
权限ID	permission_id

5.2.1.14.12 Column 角色ID of the table 角色权限表

5.2.1.14.12.1 Card of the column 角色ID of the table 角色权限表

Name	角色ID
Code	role_id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.14.12.2 Check constraint name of the column 角色ID of the table 角色权限表

CK_role_id

5.2.1.14.12.3 Check of the column 角色ID of the table 角色权限表

Minimum Value	
Maximum Value	

Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.14.12.4 Server validation rule of the column 角色ID of the table 角色权限表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.14.12.5 List of all dependencies of the table column 角色ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
角色ID	role_id	Index Column
?	?	Reference Join

5.2.1.14.12.6 List of extended attributes of the table column 角色ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.14.13 Column 权限ID of the table 角色权限表

5.2.1.14.13.1 Card of the column 权限ID of the table 角色权限表

Name	权限ID
Code	permission_id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.14.13.2 Check constraint name of the column 权限ID of the table 角色权限表

CK_permission_id

5.2.1.14.13.3 Check of the column 权限ID of the table 角色权限表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.14.13.4 Server validation rule of the column 权限ID of the table 角色权限表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.14.13.5 List of all dependencies of the table column 权限ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
权限ID	permission_id	Index Column
?	?	Reference Join

5.2.1.14.13.6 List of extended attributes of the table column 权限ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.14.14 List of keys of the table 角色权限表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.14.15 Key Key_1 of the table 角色权限表

5.2.1.14.15.1 Card of the key Key_1 of the table 角色权限表

Name	Key_1
Code	Key_1
Table	角色权限表

5.2.1.14.15.2 Code preview of the key Key_1 of the table 角色权限表

```
use coal_trading;

alter table ct_role_permission_relationships
   drop primary key;
```

5.2.1.14.15.3 List of columns of the table key Key_1

Name	*Code*
角色ID	role_id
权限ID	permission_id

5.2.1.14.15.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.14.16 List of indexes of the table 角色权限表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_role_pri_id	Index_role_pri_id	X				

5.2.1.14.17 Index Index_role_pri_id of the table 角色权限表

5.2.1.14.17.1 Card of the index Index_role_pri_id of the table 角色权限表

Name	Index_role_pri_id
Code	Index_role_pri_id
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	角色权限表

5.2.1.14.17.2 Code preview of the index Index_role_pri_id of the table 角色权限表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_role_pri_id                                     */
/*==============================================================*/
create unique index Index_role_pri_id on ct_role_permission_relationships
(
   role_id,
   permission_id
);
```

5.2.1.14.17.3 List of index columns of the table index Index_role_pri_id

Name	*Code*	*Sort*
角色ID	role_id	Ascending
权限ID	permission_id	Ascending

5.2.1.14.17.4 List of extended attributes of the table index Index_role_pri_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.15 Table 角色表

5.2.1.15.1 Card of table 角色表

Name	角色表
Code	ct_userrole
DBMS	MySQL 5.7

5.2.1.15.2 Check constraint name of the table 角色表

TK_ct_userrole

5.2.1.15.3 Server validation rule of the table 角色表

%RULES%

5.2.1.15.4 Options of the table 角色表

engine = InnoDB

5.2.1.15.5 End script of the table 角色表

```
/*
1. 几种管理员：
   a. 超级管理员
   b. 资讯编辑员
   c. 资讯审核员
   d. 资讯维护员
   e. 注册用户审核员
   f. 交易审核员

2. 交易用户[供应商,采购商]
3. 财务用户
*/
INSERT INTO ct_userrole(`id`, `name`, `mark`, `type`) VALUES
(1, "超级管理员", "SUPER_ADMIN", "admin"),
(2, "资讯编辑员", "NEWS_EDITOR", "admin"),
(3, "资讯审核员", "NEWS_AUDITOR", "admin"),
(4, "资讯维护员", "NEWS_MANAGER", "admin"),
(5, "注册用户审核员", "USER_REG_AUDITOR", "admin"),
```

```
(6, "交易审核员", "TRADE_AUDITOR", "admin"),
(7, "供应商", "USER_SALE", "user"),
(8, "采购商", "USER_BUY", "user"),
(9, "财务用户", "USER_MONEY", "user");
```

5.2.1.15.6 Code preview of the table 角色表

```
use coal_trading;

drop table if exists ct_userrole;

/*==============================================================*/
/* Table: ct_userrole                                           */
/*==============================================================*/
create table ct_userrole
(
   id                   bigint(20) not null comment '角色ID',
   mark                 varchar(20) comment '角色标记',
   name                 varchar(20) comment '角色名',
   type                 varchar(10) comment '角色类型',
   primary key (id)
)
engine = InnoDB;

alter table ct_userrole comment '1. 几种管理员：
    a. 资讯编辑员
    b. 资讯审核员
   ';

/*
1. 几种管理员：
    a. 超级管理员
    b. 资讯编辑员
    c. 资讯审核员
    d. 资讯维护员
    e. 注册用户审核员
    f. 交易审核员

2. 交易用户[供应商,采购商]
3. 财务用户
*/
INSERT INTO ct_userrole(`id`, `name`, `mark`, `type`) VALUES
(1, "超级管理员", "SUPER_ADMIN", "admin"),
(2, "资讯编辑员", "NEWS_EDITOR", "admin"),
(3, "资讯审核员", "NEWS_AUDITOR", "admin"),
(4, "资讯维护员", "NEWS_MANAGER", "admin"),
(5, "注册用户审核员", "USER_REG_AUDITOR", "admin"),
(6, "交易审核员", "TRADE_AUDITOR", "admin"),
(7, "供应商", "USER_SALE", "user"),
(8, "采购商", "USER_BUY", "user"),
(9, "财务用户", "USER_MONEY", "user");

/*==============================================================*/
/* Index: Index_role_id                                         */
/*==============================================================*/
create index Index_role_id on ct_userrole
(
   id
);
```

5.2.1.15.7 List of diagrams containing the table 角色表

Name	*Code*
国煤交易系统	pdp

5.2.1.15.8 List of incoming references of the table 角色表

Name	*Code*
RP_REF_ROLE	RP_REF_ROLE
UR_REF_ROLE	UR_REF_ROLE

5.2.1.15.9 List of all dependencies of the table 角色表

Name	*Code*	*Class Name*
RP_REF_ROLE	RP_REF_ROLE	Reference
UR_REF_ROLE	UR_REF_ROLE	Reference

5.2.1.15.10 List of extended attributes of the table 角色表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.15.11 List of columns of the table 角色表

Name	*Code*
角色ID	id
角色标记	mark
角色名	name
角色类型	type

5.2.1.15.12 Column 角色ID of the table 角色表

5.2.1.15.12.1 Card of the column 角色ID of the table 角色表

Name	角色ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.15.12.2 Check constraint name of the column 角色ID of the table 角色表

CK_id

5.2.1.15.12.3 Check of the column 角色ID of the table 角色表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.15.12.4 Server validation rule of the column 角色ID of the table 角色表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.15.12.5 List of all dependencies of the table column 角色ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
角色ID	id	Index Column
?	?	Reference Join
?	?	Reference Join

5.2.1.15.12.6 List of extended attributes of the table column 角色ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.15.13 Column 角色标记 of the table 角色表

5.2.1.15.13.1 Card of the column 角色标记 of the table 角色表

Name	角色标记
Code	mark
Data Type	varchar(20)
Mandatory	No

5.2.1.15.13.2 Check constraint name of the column 角色标记 of the table 角色表

CK_mark

5.2.1.15.13.3 Check of the column 角色标记 of the table 角色表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.15.13.4 Server validation rule of the column 角色标记 of the table 角色表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.15.13.5 List of extended attributes of the table column 角色标记

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.15.14 Column 角色名 of the table 角色表

5.2.1.15.14.1 Card of the column 角色名 of the table 角色表

Name	角色名
Code	name
Data Type	varchar(20)
Mandatory	No

5.2.1.15.14.2 Check constraint name of the column 角色名 of the table 角色表

CK_name

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.15.14.4 Server validation rule of the column 角色名 of the table 角色表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.15.14.5 List of extended attributes of the table column 角色名

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.15.15 Column 角色类型 of the table 角色表

5.2.1.15.15.1 Card of the column 角色类型 of the table 角色表

Name	角色类型
Code	type
Data Type	varchar(10)
Mandatory	No

5.2.1.15.15.2 Check constraint name of the column 角色类型 of the table 角色表

CK_type

5.2.1.15.15.3 Check of the column 角色类型 of the table 角色表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.15.15.4 Server validation rule of the column 角色类型 of the table 角色表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.15.15.5 List of extended attributes of the table column 角色类型

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.15.17 Key Key_1 of the table 角色表

5.2.1.15.17.1 Card of the key Key_1 of the table 角色表

Name	Key_1
Code	Key_1
Table	角色表

5.2.1.15.17.2 Code preview of the key Key_1 of the table 角色表

```
use coal_trading;

alter table ct_userrole
   drop primary key;
```

5.2.1.15.17.3 List of columns of the table key Key_1

Name	*Code*
角色ID	id

5.2.1.15.17.4 List of all dependencies of the table key Key_1

Name	*Code*	*Class Name*
RP_REF_ROLE	RP_REF_ROLE	Reference
UR_REF_ROLE	UR_REF_ROLE	Reference

5.2.1.15.17.5 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.15.18 List of indexes of the table 角色表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_role_id	Index_role_id					

5.2.1.15.19 Index Index_role_id of the table 角色表

5.2.1.15.19.1 Card of the index Index_role_id of the table 角色表

Name	Index_role_id
Code	Index_role_id
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	角色表

5.2.1.15.19.2 Code preview of the index Index_role_id of the table 角色表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_role_id                                         */
```

```
/*==============================================================*/
create index Index_role_id on ct_userrole
(
  id
);
```

5.2.1.15.19.3 List of index columns of the table index Index_role_id

Name	*Code*	*Sort*
角色ID	id	Ascending

5.2.1.15.19.4 List of extended attributes of the table index Index_role_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.16 Table 订单表

5.2.1.16.1 Card of table 订单表

Name	订单表
Code	ct_order
DBMS	MySQL 5.7

5.2.1.16.2 Check constraint name of the table 订单表

TK_ct_order

5.2.1.16.3 Server validation rule of the table 订单表

%RULES%

5.2.1.16.4 Options of the table 订单表

engine = InnoDB

5.2.1.16.5 Code preview of the table 订单表

```
use coal_trading;

drop table if exists ct_order;

/*==============================================================*/
/* Table: ct_order                                              */
/*==============================================================*/
create table ct_order
(
  id                bigint(20) not null auto_increment comment '订单ID',
  num               varchar(30) not null comment '订单号',
  req_id            bigint(20) comment '需求ID',
  user_id           bigint(20) comment '用户ID',
  created_time      datetime comment '创建时间',
  status            enum('1','2','3','4') not null comment '订单状态：
        1. 进行中
        2. 超时
        3. 完成
        4. 取消',
  primary key (id)
)
engine = InnoDB;

/*==============================================================*/
/* Index: Index_user_id                                         */
/*==============================================================*/
create index Index_user_id on ct_order
(
```

```
  user_id
);

/*==============================================================*/
/* Index: Index_req_id                                          */
/*==============================================================*/
create index Index_req_id on ct_order
(
  req_id
);

/*==============================================================*/
/* Index: Index_order_id                                        */
/*==============================================================*/
create unique index Index_order_id on ct_order
(
  id
);

/*==============================================================*/
/* Index: Index_order_num                                       */
/*==============================================================*/
create unique index Index_order_num on ct_order
(
  num
);

alter table ct_order add constraint FK_ORDER_REF_REQ foreign key (req_id)
    references ct_request (id) on delete restrict on update restrict;

alter table ct_order add constraint FK_ORDER_REF_USER foreign key (user_id)
    references ct_users (id) on delete restrict on update restrict;
```

5.2.1.16.6 List of diagrams containing the table 订单表

Name	*Code*
国煤交易系统	pdp

5.2.1.16.7 List of outgoing references of the table 订单表

Name	*Code*	*Foreign Key Columns*
ORDER_REF_REQ	ORDER_REF_REQ	需求ID
ORDER_REF_USER	ORDER_REF_USER	用户ID

5.2.1.16.8 List of all dependencies of the table 订单表

Name	*Code*	*Class Name*
ORDER_REF_REQ	ORDER_REF_REQ	Reference
ORDER_REF_USER	ORDER_REF_USER	Reference

5.2.1.16.9 List of extended attributes of the table 订单表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.16.10 List of columns of the table 订单表

Name	*Code*
订单ID	id
订单号	num
需求ID	req_id
用户ID	user_id

Name	*Code*
创建时间	created_time
订单状态	status

5.2.1.16.11 Column 订单ID of the table 订单表

5.2.1.16.11.1 Card of the column 订单ID of the table 订单表

Name	订单ID
Code	id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.16.11.2 Check constraint name of the column 订单ID of the table 订单表

CK_id

5.2.1.16.11.3 Check of the column 订单ID of the table 订单表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.16.11.4 Server validation rule of the column 订单ID of the table 订单表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.16.11.5 List of all dependencies of the table column 订单ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
订单ID	id	Index Column

5.2.1.16.11.6 List of extended attributes of the table column 订单ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.16.12 Column 订单号 of the table 订单表

5.2.1.16.12.1 Card of the column 订单号 of the table 订单表

Name	订单号
Code	num
Data Type	varchar(30)
Mandatory	Yes

5.2.1.16.12.2 Check constraint name of the column 订单号 of the table 订单表

CK_num

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.16.12.4 Server validation rule of the column 订单号 of the table 订单表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.16.12.5 List of all dependencies of the table column 订单号

Name	*Code*	*Class Name*
订单号	num	Index Column

5.2.1.16.12.6 List of extended attributes of the table column 订单号

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.16.13 Column 需求ID of the table 订单表

5.2.1.16.13.1 Card of the column 需求ID of the table 订单表

Name	需求ID
Code	req_id
Data Type	bigint(20)
Mandatory	No

5.2.1.16.13.2 Check constraint name of the column 需求ID of the table 订单表

CK_req_id

5.2.1.16.13.3 Check of the column 需求ID of the table 订单表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.16.13.4 Server validation rule of the column 需求ID of the table 订单表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.16.13.5 List of all dependencies of the table column 需求ID

Name	*Code*	*Class Name*
需求ID	req_id	Index Column
?	?	Reference Join

5.2.1.16.13.6 List of extended attributes of the table column 需求ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.16.14 Column 用户ID of the table 订单表

5.2.1.16.14.1 Card of the column 用户ID of the table 订单表

Name	用户ID
Code	user_id
Data Type	bigint(20)
Mandatory	No

5.2.1.16.14.2 Check constraint name of the column 用户ID of the table 订单表

CK_user_id

5.2.1.16.14.3 Check of the column 用户ID of the table 订单表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.16.14.4 Server validation rule of the column 用户ID of the table 订单表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.16.14.5 List of all dependencies of the table column 用户ID

Name	*Code*	*Class Name*
用户ID	user_id	Index Column
?	?	Reference Join

5.2.1.16.14.6 List of extended attributes of the table column 用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.16.15 Column 创建时间 of the table 订单表

5.2.1.16.15.1 Card of the column 创建时间 of the table 订单表

Name	创建时间
Code	created_time
Data Type	datetime

Mandatory	No

5.2.1.16.15.2 Check constraint name of the column 创建时间 of the table 订单表

CK_created_time

5.2.1.16.15.3 Check of the column 创建时间 of the table 订单表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.16.15.4 Server validation rule of the column 创建时间 of the table 订单表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.16.15.5 List of extended attributes of the table column 创建时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.16.16 Column 订单状态 of the table 订单表

5.2.1.16.16.1 Card of the column 订单状态 of the table 订单表

Name	订单状态
Code	status
Data Type	enum('1','2','3','4')
Mandatory	Yes

5.2.1.16.16.2 Check constraint name of the column 订单状态 of the table 订单表

CK_status

5.2.1.16.16.3 Check of the column 订单状态 of the table 订单表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.16.16.4 Server validation rule of the column 订单状态 of the table 订单表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.16.16.5 List of extended attributes of the table column 订单状态

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7

Name	*Data Type*	*Value*	*Target Name*
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.16.17 List of keys of the table 订单表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.16.18 Key Key_1 of the table 订单表

5.2.1.16.18.1 Card of the key Key_1 of the table 订单表

Name	Key_1
Code	Key_1
Table	订单表

5.2.1.16.18.2 Code preview of the key Key_1 of the table 订单表

```
use coal_trading;

alter table ct_order
   drop primary key;
```

5.2.1.16.18.3 List of columns of the table key Key_1

Name	*Code*
订单ID	id

5.2.1.16.18.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.16.19 List of indexes of the table 订单表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_user_id	Index_user_id					
Index_req_id	Index_req_id					
Index_order_id	Index_order_id	X				
Index_order_num	Index_order_num	X				

5.2.1.16.20 Index Index_user_id of the table 订单表

5.2.1.16.20.1 Card of the index Index_user_id of the table 订单表

Name	Index_user_id
Code	Index_user_id
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	订单表

5.2.1.16.20.2 Code preview of the index Index_user_id of the table 订单表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_user_id                                         */
/*==============================================================*/
create index Index_user_id on ct_order
(
   user_id
);
```

5.2.1.16.20.3 List of index columns of the table index Index_user_id

Name	*Code*	*Sort*
用户ID	user_id	Ascending

5.2.1.16.20.4 List of extended attributes of the table index Index_user_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.16.21 Index Index_req_id of the table 订单表

5.2.1.16.21.1 Card of the index Index_req_id of the table 订单表

Name	Index_req_id
Code	Index_req_id
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	订单表

5.2.1.16.21.2 Code preview of the index Index_req_id of the table 订单表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_req_id                                          */
/*==============================================================*/
create index Index_req_id on ct_order
(
   req_id
);
```

5.2.1.16.21.3 List of index columns of the table index Index_req_id

Name	*Code*	*Sort*
需求ID	req_id	Ascending

5.2.1.16.21.4 List of extended attributes of the table index Index_req_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.16.22 Index Index_order_id of the table 订单表

5.2.1.16.22.1 Card of the index Index_order_id of the table 订单表

Name	Index_order_id
Code	Index_order_id
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	订单表

5.2.1.16.22.2 Code preview of the index Index_order_id of the table 订单表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_order_id                                        */
/*==============================================================*/
create unique index Index_order_id on ct_order
(
   id
);
```

5.2.1.16.22.3 List of index columns of the table index Index_order_id

Name	*Code*	*Sort*
订单ID	id	Ascending

5.2.1.16.22.4 List of extended attributes of the table index Index_order_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.16.23 Index Index_order_num of the table 订单表

5.2.1.16.23.1 Card of the index Index_order_num of the table 订单表

Name	Index_order_num
Code	Index_order_num
Unique	Yes
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	订单表

5.2.1.16.23.2 Code preview of the index Index_order_num of the table 订单表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_order_num                                       */
/*==============================================================*/
create unique index Index_order_num on ct_order
(
```

```
  num
);
```

5.2.1.16.23.3 List of index columns of the table index Index_order_num

Name	*Code*	*Sort*
订单号	num	Ascending

5.2.1.16.23.4 List of extended attributes of the table index Index_order_num

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.17 Table 资金变动记录表

5.2.1.17.1 Card of table 资金变动记录表

Name	资金变动记录表
Code	ct_finance_log
DBMS	MySQL 5.7

5.2.1.17.2 Check constraint name of the table 资金变动记录表

TK_ct_finance_log

5.2.1.17.3 Server validation rule of the table 资金变动记录表

%RULES%

5.2.1.17.4 Options of the table 资金变动记录表

engine = InnoDB

5.2.1.17.5 Code preview of the table 资金变动记录表

```
use coal_trading;

drop table if exists ct_finance_log;

/*==============================================================*/
/* Table: ct_finance_log                                        */
/*==============================================================*/
create table ct_finance_log
(
  user_id             bigint(20) not null comment '用户ID',
  date                datetime default CURRENT_TIMESTAMP comment '变动时间',
  log_type            enum('1','2','3') comment '变动操作：
        1. 预存（增加）
        2. 缴纳给平台（冻结）
        3. 平台扣除指定额度的冻结款项（减少）
        ',
  quantity            decimal(10,2) comment '金额数量',
  cert                varchar(255) comment '交易凭证（文件）',
  primary key (user_id)
)
engine = InnoDB;

/*==============================================================*/
/* Index: Index_user_id                                         */
/*==============================================================*/
create index Index_user_id on ct_finance_log
(
  user_id
);

/*==============================================================*/
```

```
/* Index: Index_log_type                        */
/*==============================================================*/
create index Index_log_type on ct_finance_log
(
   log_type
);

alter table ct_finance_log add constraint FK_FL_REF_USER foreign key (user_id)
      references ct_users (id) on delete restrict on update restrict;
```

5.2.1.17.6 List of diagrams containing the table 资金变动记录表

Name	*Code*
国煤交易系统	pdp

5.2.1.17.7 List of outgoing references of the table 资金变动记录表

Name	*Code*	*Foreign Key Columns*
FL_REF_USER	FL_REF_USER	用户ID

5.2.1.17.8 List of all dependencies of the table 资金变动记录表

Name	*Code*	*Class Name*
FL_REF_USER	FL_REF_USER	Reference

5.2.1.17.9 List of extended attributes of the table 资金变动记录表

Name	*Data Type*	*Value*	*Target Name*
Temporary	(Boolean)	false	MySQL 5.7

5.2.1.17.10 List of columns of the table 资金变动记录表

Name	*Code*
用户ID	user_id
变动时间	date
变动操作	log_type
金额数量	quantity
交易凭证（文件）	cert

5.2.1.17.11 Column 用户ID of the table 资金变动记录表

5.2.1.17.11.1 Card of the column 用户ID of the table 资金变动记录表

Name	用户ID
Code	user_id
Data Type	bigint(20)
Mandatory	Yes

5.2.1.17.11.2 Check constraint name of the column 用户ID of the table 资金变动记录表

CK_user_id

5.2.1.17.11.3 Check of the column 用户ID of the table 资金变动记录表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.17.11.4 Server validation rule of the column 用户ID of the table 资金变动记录表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.17.11.5 List of all dependencies of the table column 用户ID

Name	*Code*	*Class Name*
Key_1	Key_1	Key
用户ID	user_id	Index Column
?	?	Reference Join

5.2.1.17.11.6 List of extended attributes of the table column 用户ID

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.17.12 Column 变动时间 of the table 资金变动记录表

5.2.1.17.12.1 Card of the column 变动时间 of the table 资金变动记录表

Name	变动时间
Code	date
Data Type	datetime
Mandatory	No

5.2.1.17.12.2 Check constraint name of the column 变动时间 of the table 资金变动记录表

CK_date

5.2.1.17.12.3 Check of the column 变动时间 of the table 资金变动记录表

Minimum Value	
Maximum Value	
Default Value	CURRENT_TIMESTAMP
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.17.12.4 Server validation rule of the column 变动时间 of the table 资金变动记录表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.17.12.5 List of extended attributes of the table column 变动时间

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.17.13 Column 变动操作 of the table 资金变动记录表

5.2.1.17.13.1 Card of the column 变动操作 of the table 资金变动记录表

Name	变动操作

Code	log_type
Data Type	enum('1','2','3')
Mandatory	No

5.2.1.17.13.2 Check constraint name of the column 变动操作 of the table 资金变动记录表

CK_log_type

5.2.1.17.13.3 Check of the column 变动操作 of the table 资金变动记录表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.17.13.4 Server validation rule of the column 变动操作 of the table 资金变动记录表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.17.13.5 List of all dependencies of the table column 变动操作

Name	*Code*	*Class Name*
变动操作	log_type	Index Column

5.2.1.17.13.6 List of extended attributes of the table column 变动操作

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.17.14 Column 金额数量 of the table 资金变动记录表

5.2.1.17.14.1 Card of the column 金额数量 of the table 资金变动记录表

Name	金额数量
Code	quantity
Data Type	decimal(10,2)
Mandatory	No

5.2.1.17.14.2 Check constraint name of the column 金额数量 of the table 资金变动记录表

CK_quantity

5.2.1.17.14.3 Check of the column 金额数量 of the table 资金变动记录表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.17.14.4 Server validation rule of the column 金额数量 of the table 资金变动记录表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.17.14.5 List of extended attributes of the table column 金额数量

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.17.15 Column 交易凭证（文件） of the table 资金变动记录表

5.2.1.17.15.1 Card of the column 交易凭证（文件） of the table 资金变动记录表

Name	交易凭证（文件）
Code	cert
Data Type	varchar(255)
Mandatory	No

5.2.1.17.15.2 Check constraint name of the column 交易凭证（文件） of the table 资金变动记录表

CK_cert

5.2.1.17.15.3 Check of the column 交易凭证（文件） of the table 资金变动记录表

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

5.2.1.17.15.4 Server validation rule of the column 交易凭证（文件） of the table 资金变动记录表

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

5.2.1.17.15.5 List of extended attributes of the table column 交易凭证（文件）

Name	*Data Type*	*Value*	*Target Name*
CharSet	CharSets		MySQL 5.7
Collate	(String)		MySQL 5.7
National	(Boolean)	false	MySQL 5.7
Unsigned	(Boolean)	false	MySQL 5.7
ZeroFill	(Boolean)	false	MySQL 5.7

5.2.1.17.16 List of keys of the table 资金变动记录表

Name	*Code*	*Primary*
Key_1	Key_1	X

5.2.1.17.17 Key Key_1 of the table 资金变动记录表

5.2.1.17.17.1 Card of the key Key_1 of the table 资金变动记录表

Name	Key_1
Code	Key_1
Table	资金变动记录表

5.2.1.17.17.2 Code preview of the key Key_1 of the table 资金变动记录表

```
use coal_trading;

alter table ct_finance_log
   drop primary key;
```

5.2.1.17.17.3 List of columns of the table key Key_1

Name	*Code*
用户ID	user_id

5.2.1.17.17.4 List of extended attributes of the table key Key_1

Name	*Data Type*	*Value*	*Target Name*
ExtUnique	(Boolean)	false	MySQL 5.7

5.2.1.17.18 List of indexes of the table 资金变动记录表

Name	*Code*	*Unique*	*Cluster*	*Primary*	*Foreign Key*	*Alternate Key*
Index_user_id	Index_user_id					
Index_log_type	Index_log_type					

5.2.1.17.19 Index Index_user_id of the table 资金变动记录表

5.2.1.17.19.1 Card of the index Index_user_id of the table 资金变动记录表

Name	Index_user_id
Code	Index_user_id
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	资金变动记录表

5.2.1.17.19.2 Code preview of the index Index_user_id of the table 资金变动记录表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_user_id                                         */
/*==============================================================*/
create index Index_user_id on ct_finance_log
(
   user_id
);
```

5.2.1.17.19.3 List of index columns of the table index Index_user_id

Name	*Code*	*Sort*
用户ID	user_id	Ascending

5.2.1.17.19.4 List of extended attributes of the table index Index_user_id

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7

5.2.1.17.20 Index Index_log_type of the table 资金变动记录表

5.2.1.17.20.1 Card of the index Index_log_type of the table 资金变动记录表

Name	Index_log_type
Code	Index_log_type
Unique	No
Cluster	No
Primary	No
Foreign Key	No
Alternate Key	No
Table	资金变动记录表

5.2.1.17.20.2 Code preview of the index Index_log_type of the table 资金变动记录表

```
use coal_trading;

use coal_trading;

/*==============================================================*/
/* Index: Index_log_type                                        */
/*==============================================================*/
create index Index_log_type on ct_finance_log
(
   log_type
);
```

5.2.1.17.20.3 List of index columns of the table index Index_log_type

Name	*Code*	*Sort*
变动操作	log_type	Ascending

5.2.1.17.20.4 List of extended attributes of the table index Index_log_type

Name	*Data Type*	*Value*	*Target Name*
FullText	(Boolean)	false	MySQL 5.7