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实验日期 06.23 教师签字 成绩

实验报告

【实验名称】 期末综合测评

【实验目的】

综合评定数据库掌握程度

【实验原理】

SQL 语句使用等

【实验内容】

一、 1.

Data Studio : LIBRARAY014@mycount (1)

文件(F) 编辑(E) 运行(R) 设置(G) 帮助(H)

对象浏览器 LIBRARAY014@mycount (1)

消息

```
1 CREATE TABLE BOOKCATE014 (
2   CATE CHAR(3) PRIMARY KEY,
3   CNAME VARCHAR(12) NOT NULL,
4   DES VARCHAR(60)
5 );
```

运行时间: 95 ms

消息

```
[2024-06-23 19:15:28.408 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "book014_pkey" for table "book014"
[2024-06-23 19:17:20.107 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:17:20.107 GMT+08:00] [INFO] 执行时间: 25 ms
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 执行时间: 32 ms
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 执行时间: 32 ms
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 操作成功...
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 执行时间: 25 ms
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 执行时间: 25 ms
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 执行时间: 23 ms
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 操作成功...
[2024-06-23 19:22:20.831 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:22:20.831 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 操作成功...
```

普通表 刷新

Data Studio : LIBRARAY014@mycount (1)

文件(F) 编辑(E) 运行(R) 设置(G) 帮助(H)

对象浏览器 LIBRARAY014@mycount (1)

消息

```
1 CREATE TABLE BOOK014 (
2   BID CHAR(7) PRIMARY KEY,
3   ISBN CHAR(13) NOT NULL,
4   BNAME CHAR(20) NOT NULL,
5   AUTHOR VARCHAR(10) NOT NULL,
6   PUB VARCHAR(30) NOT NULL,
7   PRICE MONEY NOT NULL,
8   CATE CHAR(3),
9   FOREIGN KEY (CATE) REFERENCES BOOKCATE014 (CATE)
10 );
```

运行时间: 87 ms

消息

```
[2024-06-23 19:17:20.114 GMT+08:00] [INFO] 执行成功...
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:21:39.795 GMT+08:00] [INFO] 操作成功...
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 执行时间: 25 ms
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 执行时间: 25 ms
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 执行时间: 23 ms
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 操作成功...
[2024-06-23 19:22:20.831 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:22:20.831 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 操作成功...
[2024-06-23 19:23:57.848 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "book014_pkey" for table "book014"
[2024-06-23 19:23:57.848 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "book014_pkey" for table "book014"
```

普通表 刷新

Data Studio : LIBRARAY014@mycount (1)

文件(F) 编辑(E) 运行(R) 设置(G) 帮助(H)

对象浏览器 LIBRARAY014@mycount (1)

消息

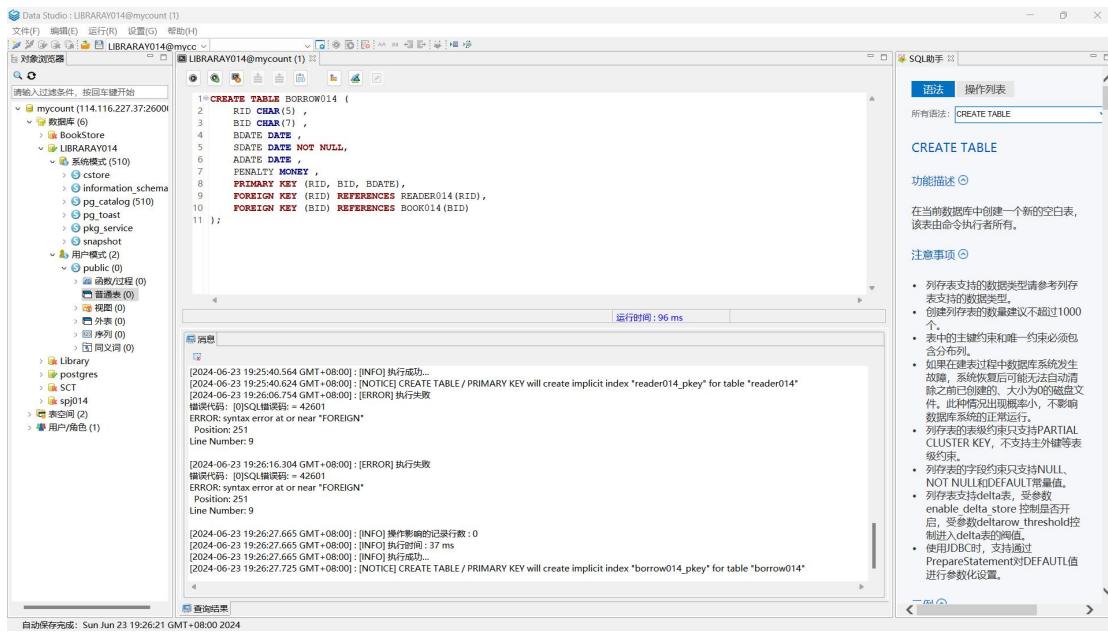
```
1 CREATE TABLE READER014 (
2   RID CHAR(5) PRIMARY KEY,
3   RNAME VARCHAR(12) NOT NULL,
4   RSEX CHAR(3),
5   RAGE SMALLINT,
6   PHONE CHAR(11) NOT NULL,
7   STAT CHAR(6) NOT NULL
8 );
```

运行时间: 84 ms

消息

```
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:45.307 GMT+08:00] [INFO] 执行时间: 25 ms
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 执行时间: 23 ms
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:21:51.076 GMT+08:00] [INFO] 执行时间: 23 ms
[2024-06-23 19:22:20.834 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "book014_pkey" for table "book014"
[2024-06-23 19:22:20.834 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:22:20.835 GMT+08:00] [INFO] 执行时间: 35 ms
[2024-06-23 19:23:57.815 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:23:57.815 GMT+08:00] [INFO] 执行时间: 31 ms
[2024-06-23 19:23:57.815 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:23:57.815 GMT+08:00] [INFO] 执行时间: 31 ms
[2024-06-23 19:23:57.815 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:23:57.815 GMT+08:00] [INFO] 执行时间: 31 ms
[2024-06-23 19:25:40.624 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "book014_pkey" for table "book014"
[2024-06-23 19:25:40.624 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:25:40.564 GMT+08:00] [INFO] 执行时间: 32 ms
[2024-06-23 19:25:40.564 GMT+08:00] [INFO] 操作影响的记录行数: 0
[2024-06-23 19:25:40.564 GMT+08:00] [INFO] 执行时间: 32 ms
[2024-06-23 19:25:40.564 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "reader014_pkey" for table "reader014"
[2024-06-23 19:25:40.564 GMT+08:00] [NOTICE] CREATE TABLE / PRIMARY KEY will create implicit index "reader014_pkey" for table "reader014"
```

普通表 刷新



mycount (114.116.227.37:2600)

- 数据库 (6)
 - BookStore
 - LIBRARAY014
 - 系统模式 (510)
 - cstore
 - information_schema
 - pg_catalog (510)
 - pg_toast
 - pkg_service
 - snapshot
 - 用户模式 (2)
 - public (4)
 - 函数/过程 (0)
 - 普通表 (4)
 - book014
 - bookcate014
 - borrow014
 - reader014
 - 视图 (0)
 - 外表 (0)
 - 序列 (0)
 - 同义词 (0)
 - Library
 - postgres
 - SCT
 - spj014
- 表空间 (2)
- 用户/角色 (1)

建表完成

3.

The screenshot shows two Data Studio windows side-by-side, illustrating the process of creating a table and inserting data.

Left Window (Data Studio - LIBRARAY014@mycount):

- Object Browser:** Shows the database structure including `mycount` (114.16.227.37:2600), `BookStore`, and `LIBRARAY014` (510). Under `LIBRARAY014`, there are `extore`, `information_schema`, `pg_catalog` (510), `pg_toast`, `pkgservice`, and `snapshot`. The `public` schema contains `book014`, `bookcate014`, `borrow014`, and `reader014`.
- SQL Assistant:** Displays the SQL query for inserting data into the `reader014` table:


```
1 INSERT INTO READER014 (RID, RNAME, RSEX, RAGE, PHONE, STAT)
2 VALUES ('24014', '杨跃渐', '男', 20, '13345959676', '可用');
```
- Messages:** Shows log entries indicating successful execution of the insert statement.
- Query Results:** Shows the results of a previous query on the `reader014` table, listing 11 rows of reader information.

Right Window (Data Studio - LIBRARAY014@mycount):

- Object Browser:** Similar to the left window, showing the database structure.
- SQL Assistant:** Displays the same SQL insert query as the left window.
- Messages:** Shows log entries indicating successful execution of the insert statement.
- Query Results:** Shows the results of a previous query on the `reader014` table, listing 11 rows of reader information. The row for '杨跃渐' (RID: 24014) is highlighted with a red border.

Data Studio : LIBRARAY014@mycount (1)

文件(F) 编辑(E) 运行(R) 设置(G) 帮助(H)

对浏览器

请输入过滤条件, 按回车键开始

- mycount (114.16.227.37:2600)
 - 数据库(6)
 - BookStore
 - LIBRARAY014
 - 系统模式(510)
 - cte
 - Information_schema
 - pg_catalog (510)
 - pg_toast
 - pkg_service
 - snapshot
 - 用户模式(2)
 - public (4)
 - 函数(4)
 - book014
 - bookcate014
 - borrow014
 - reader014
 - 视图(0)
 - 外表(0)
 - 序列(0)
 - 同义词(0)
 - Library
 - postres
 - SCT
 - sp014
 - 表空间(2)
 - 用户/角色(1)

SQL语句

```
1= INSERT INTO BORROW014 (RID, BID, BOATE, SDATE, ADATE, PENALTY)
2 VALUES ('24014', 'Q001-02', '2024-06-20', '2024-06-23', '2024-06-21', NULL);
3
```

消息

[2024-06-23 19:36:31.484 GMT+08:00]: [INFO] 执行成功...
[2024-06-23 19:36:30.554 GMT+08:00]: [ERROR] 执行失败
错误代码: [0]SQL语法错误 - 42P01
ERROR: relation "borrow" does not exist on dn_6001
Position: 13
Line Number: 1

[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 操作影响的记录行数: 1
[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 执行时间: 20 ms
[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 执行成功...

查询结果

自动保存完成: Sun Jun 23 19:36:21 GMT+08:00 2024

Data Studio : LIBRARAY014@mycc (1)

文件(F) 编辑(E) 运行(R) 设置(G) 帮助(H)

对浏览器

请输入过滤条件, 按回车键开始

 - mycount (114.16.227.37:2600)
 - 数据库(6)
 - BookStore
 - LIBRARAY014
 - 系统模式(510)
 - cte
 - Information_schema
 - pg_catalog (510)
 - pg_toast
 - pkg_service
 - snapshot
 - 用户模式(2)
 - public (4)
 - 函数/过程(0)
 - 普通类(4)
 - book014
 - bookcate014
 - borrow014
 - reader014
 - 视图(0)
 - 外表(0)
 - 序列(0)
 - 同义词(0)
 - Library
 - postres
 - SCT
 - sp014
 - 表空间(2)
 - 用户/角色(1)

SQL语句

```
1= INSERT INTO BORROW014 (RID, BID, BOATE, SDATE, ADATE, PENALTY)
2 VALUES ('24014', 'Q002-01', '2024-06-21', '2024-06-28', NULL, NULL);
3
```

消息

ERROR: relation "borrow" does not exist on dn_6001
Position: 13
Line Number: 1

[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 操作影响的记录行数: 1
[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 执行时间: 20 ms
[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 执行成功...
[2024-06-23 19:37:03.664 GMT+08:00]: [INFO] 操作影响的记录行数: 1
[2024-06-23 19:37:03.664 GMT+08:00]: [INFO] 执行时间: 29 ms
[2024-06-23 19:37:03.664 GMT+08:00]: [INFO] 执行成功...

查询结果

自动保存完成: Sun Jun 23 19:36:21 GMT+08:00 2024

Data Studio : public.borrow014-LIBRARAY014@mycount

文件(F) 编辑(E) 运行(R) 设置(G) 帮助(H)

对浏览器

请输入过滤条件, 按回车键开始

 - mycount (114.16.227.37:2600)
 - 数据库(6)
 - BookStore
 - LIBRARAY014
 - 系统模式(510)
 - cte
 - Information_schema
 - pg_catalog (510)
 - pg_toast
 - pkg_service
 - snapshot
 - 用户模式(2)
 - public (4)
 - 函数/过程(0)
 - 普通类(4)
 - book014
 - bookcate014
 - borrow014
 - reader014
 - 视图(0)
 - 外表(0)
 - 序列(0)
 - 同义词(0)
 - Library
 - postres
 - SCT
 - sp014
 - 表空间(2)
 - 用户/角色(1)

SQL语句

```
1= INSERT INTO BORROW014 (RID, BID, BOATE, SDATE, ADATE, PENALTY)
2 VALUES ('24014', 'Q002-01', '2024-06-21', '2024-06-28', NULL, NULL);
3
```

消息

ERROR: relation "borrow" does not exist on dn_6001
Position: 13
Line Number: 1

[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 操作影响的记录行数: 1
[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 执行时间: 20 ms
[2024-06-23 19:36:36.634 GMT+08:00]: [INFO] 执行成功...
[2024-06-23 19:37:03.664 GMT+08:00]: [INFO] 操作影响的记录行数: 1
[2024-06-23 19:37:03.664 GMT+08:00]: [INFO] 执行时间: 29 ms
[2024-06-23 19:37:03.664 GMT+08:00]: [INFO] 执行成功...

查询结果

	rid	bid	bdate	sdate	adate	penalty
1	18001	R001-01	2017-04-05 00:00:00	2017-05-05 00:00:00	2017-04-24 00:00:00	\$0.00
2	18002	R001-02	2017-04-05 00:00:00	2017-05-05 00:00:00	2017-04-28 00:00:00	\$0.00
3	18002	R001-03	2017-04-05 00:00:00	2017-05-05 00:00:00	2017-05-06 00:00:00	\$0.10
4	18007	D001-01	2017-04-05 00:00:00	2017-05-05 00:00:00	2017-05-03 00:00:00	\$0.00
5	18004	D001-02	2017-04-05 00:00:00	2017-05-05 00:00:00	2017-06-05 00:00:00	\$3.10
6	18002	D001-03	2017-04-06 00:00:00	2017-05-06 00:00:00	2017-05-10 00:00:00	\$0.40
7	18007	R001-01	2017-07-10 00:00:00	2017-08-10 00:00:00	2017-08-10 00:00:00	\$0.00
8	18007	R001-03	2017-07-10 00:00:00	2017-08-10 00:00:00	2017-08-10 00:00:00	\$0.00
9	18007	Q001-02	2017-07-10 00:00:00	2017-08-10 00:00:00	2017-08-10 00:00:00	\$0.00
10	18007	R001-03	2017-09-09 00:00:00	2017-10-09 00:00:00	2017-10-09 00:00:00	[NULL]
11	18007	Q002-01	2017-09-10 00:00:00	2017-10-10 00:00:00	2017-10-10 00:00:00	[NULL]
12	17001	R001-03	2017-09-15 00:00:00	2017-10-15 00:00:00	2017-11-25 00:00:00	\$4.10
13	17002	R001-03	2017-09-18 00:00:00	2017-10-18 00:00:00	2017-11-03 00:00:00	\$1.60
14	17003	Q001-02	2017-09-21 00:00:00	2017-10-21 00:00:00	2017-11-01 00:00:00	\$1.10
15	18001	R001-03	2017-10-15 00:00:00	2017-11-15 00:00:00	2017-11-05 00:00:00	\$0.00
16	24014	P002-01	2024-06-21 00:00:00	2024-06-28 00:00:00	2024-06-21 00:00:00	[NULL]
17	24014	Q001-02	2024-06-20 00:00:00	2024-06-23 00:00:00	2024-06-21 00:00:00	[NULL]

查询提交时间: 2024-06-23 19:37:33.354 GMT+0获取17行, 共182 ms 无法编译查询结果。

自动保存完成: Sun Jun 23 19:36:21 GMT+08:00 2024

二、1.

The screenshot shows the Data Studio interface with a query editor and a results viewer.

Query Editor:

```

1= SELECT RID AS "证件号",
2      RNAME AS "姓名",
3      RSEX AS "性别",
4      RAGE AS "年龄",
5      PHONE AS "手机号码",
6      STAT AS "证件状态"
7  FROM mycount
8 WHERE RAGE BETWEEN 18 AND 25;
9

```

Results View:

ID	证件号	姓名	性别	年龄	手机号码	证件状态
1	17001	李丽	女	18	12500000001	可用
2	17002	王静	女	19	12500000002	可用
3	17003	陈立军	男	20	12500000003	可用
4	18001	王小杰	男	21	12500000004	可用
5	18002	李晓明	女	22	12500000005	可用
6	18003	王潮	男	19	12500000006	失效
7	18004	李伟	男	23	12500000007	可用
8	18005	陈晓晨	男	22	12500000008	可用
9	18006	江萍萍	女	21	12500000009	可用
10	18007	于晓光	男	20	12500000010	可用
11	24014	杨晓玲	男	20	13345959676	可用

查询提交时间: 2024-06-23 19:40:59.514 GMT+08:00 取决于11行, 共耗时148 ms

自动保存完成: Sun Jun 23 19:36:21 GMT+08:00 2024

2.

The screenshot shows the Data Studio interface with the following details:

- File Menu:** 文件(F)、编辑(E)、运行(R)、设置(G)、帮助(H)
- Database:** LIBRARY014@mycount (1)
- Table:** BORROW014
- SQL Statement:**

```
1 SELECT * FROM BORROW014
2 WHERE BID = 'Q001-02';
3
```

- Result Table:**

rid	bid	bdate	sdate	adate	penalty
1	18007	2017-07-10 00:00:00	2017-08-10 00:00:00	2017-08-10 00:00:00	\$0.00
2	17003	2017-09-21 00:00:00	2017-10-21 00:00:00	2017-11-01 00:00:00	\$1.10
3	24014	2024-06-20 00:00:00	2024-06-23 00:00:00	2024-06-21 00:00:00	[NULL]
- Information:** 运行时间: 241 ms
- Log:** 自动保存完成: Sun Jun 23 19:41:21 GMT+08:00 2024

3.

The screenshot shows the Data Studio interface with the following details:

- File Menu:** 文件(F)、编辑(E)、运行(R)、设置(G)、帮助(H)
- Database:** LIBRARY014@mycount (1)
- Table:** BOOK014
- SQL Statement:**

```
1 SELECT * FROM BOOK014
2 WHERE BNAME LIKE '%数据库%';
3
```

- Result Table:**

bid	isbn	bname	author	pub	price	cate
1	Q001-01	数据库课程设计	陈红	清华大学出版社	\$38.00	B02
2	Q001-02	数据库课程设计	陈红	清华大学出版社	\$38.00	B02
3	Q002-01	数据库原理	王一山	清华大学出版社	\$48.00	B02
4	Q002-02	数据库原理	王一山	清华大学出版社	\$48.00	B02
5	Q002-03	数据库原理	王一山	清华大学出版社	\$48.00	B02
- Information:** 运行时间: 256 ms
- Log:** 自动保存完成: Sun Jun 23 19:41:21 GMT+08:00 2024

4.

The screenshot shows the Data Studio interface with a database connection to LIBRARAY014@mycount (114.116.227.37:2600). The left sidebar displays the database schema with tables like BookStore, LIBRARAY014, and BOOK014. The main area shows a SQL editor with the following query:

```

1 SELECT
2   READER014.*,
3   BOOK014.*
4   FROM
5   BORROW014, READER014, BOOK014
6   WHERE
7   BORROW014.RID = READER014.RID
8   AND BORROW014.BID = BOOK014.BID
9   AND BORROW014.ADATE IS NULL;
10

```

The results pane shows a table with 3 rows:

rid	rname	rsex	rage	phone	stat	bid	isbn	bname	au
1 22	于晓光	男	20	12500000010	可用	R001-03	R001	大学计算机基础	崔晓雷
2 37	于晓光	男	20	12500000010	可用	Q002-01	Q002	数据库原理	王一山
3 14	杨政新	男	20	13345959676	可用	Q002-01	Q002	数据库原理	王一山

SQL Assistant panel on the right contains a note about SELECT statements.

5.

The screenshot shows the Data Studio interface with the same database connection. The SQL editor now includes an alias and a GROUP BY clause:

```

1 SELECT READER014.* ,SUM(BORROW014.PENALTY) AS TOTAL_PENALTY
2   FROM READER014, BORROW014
3   WHERE READER014.RID = BORROW014.RID
4   AND BORROW014.PENALTY IS NOT NULL
5   GROUP BY READER014.RID
6   ORDER BY TOTAL_PENALTY DESC
7   LIMIT 2;
8

```

The results pane shows a table with 2 rows:

rid	rname	rsex	rage	phone	stat	total_penalty
1 17001	李丽	女	18	12500000001	可用	\$4.10
2 18004	李伟	男	23	12500000007	可用	\$3.10

SQL Assistant panel on the right contains a note about SELECT statements.

6.

The screenshot shows a Data Studio interface with multiple tabs open. The main tab displays a complex SQL query for calculating book lending statistics. The query joins several tables including READER014, BORROW014, and BOOK014. The results are shown in a table with columns: rid, rname, rsex, rage, phone, and stat. The table contains three rows of data.

```

1 SELECT *
2 FROM READER014
3 WHERE RID IN (
4   SELECT RID
5   FROM BORROW014
6   WHERE BID IN (
7     SELECT BID
8     FROM BOOK014
9     WHERE BNAME = '数据库编程设计'
10   )
11 );
12

```

rid	rname	rsex	rage	phone	stat
1 18007	于晓光	男	20	12500000010	可用
2 17003	陈立军	男	20	12500000003	可用
3 24014	杨跃新	男	20	13345959676	可用

7.

This screenshot shows a modified version of the previous query. The key change is the addition of the DISTINCT keyword after the SELECT statement. The results remain the same, showing three rows of data from the READER014 table.

```

1 SELECT *
2 FROM READER014
3 WHERE RID IN (
4   SELECT DISTINCT RID
5   FROM BORROW014
6   WHERE BID IN (
7     SELECT BID
8     FROM BORROW014
9     WHERE RID = (
10       SELECT RID
11       FROM READER014
12       WHERE RNAME = '陈立军'
13     )
14 );

```

rid	rname	rsex	rage	phone	stat
1 17003	陈立军	男	20	12500000003	可用
2 18007	于晓光	男	20	12500000010	可用
3 24014	杨跃新	男	20	13345959676	可用

8.

9.

```

1 SELECT *
2 FROM BOOK014
3 WHERE CATE IN (SELECT CATE FROM BOOKCATE014 WHERE CNAME = '计算机类')
4 INTERSECT
5
6
7 SELECT *
8 FROM BOOK014
9 WHERE PUB = '清华大学出版社';
10

```

bid	isbn	bname	author	pub	price	cate
1 Q001-01	Q001	数据库程序设计	陈红	清华大学出版社	\$38.00	B02
2 Q001-02	Q001	数据库课程设计	陈红	清华大学出版社	\$38.00	B02
3 Q002-01	Q002	数据库原理	王一山	清华大学出版社	\$48.00	B02
4 Q002-02	Q002	数据库原理	王一山	清华大学出版社	\$48.00	B02
5 Q002-03	Q002	数据库原理	王一山	清华大学出版社	\$48.00	B02

运行时间: 215 ms

无法编辑查询结果。

自动保存完成: Sun Jun 23 20:06:22 GMT+08:00 2024

9.

```

1 CREATE VIEW COM_BOOK AS
2 SELECT BOOK014.*
3 FROM BOOK014
4 WHERE BOOK014.CATE IN (SELECT BOOKCATE014.CATE FROM BOOKCATE014 WHERE BOOKCATE014.CNAME = '计算机类');
5

```

时间	操作	记录数
2024-06-23 19:56:31.224 GMT+08:00	[INFO] 操作影响的记录行数: 3	
2024-06-23 19:56:31.224 GMT+08:00	[INFO] 执行时间: 142 ms	
2024-06-23 19:56:31.224 GMT+08:00	[INFO] 执行成功...	
2024-06-23 19:56:31.699 GMT+08:00	[ERROR] 执行失败	
错误代码: [0]SQL插件错误 = 42P01	ERROR: relation "reader" does not exist on dn_6001	
Position: 64	Line Number: 4	
2024-06-23 19:57:22.376 GMT+08:00	[INFO] 操作影响的记录行数: 3	
2024-06-23 19:57:22.376 GMT+08:00	[INFO] 执行时间: 140 ms	
2024-06-23 19:57:22.376 GMT+08:00	[INFO] 执行成功...	
2024-06-23 20:05:44.805 GMT+08:00	[INFO] 操作影响的记录行数: 0	
2024-06-23 20:05:44.805 GMT+08:00	[INFO] 执行时间: 141 ms	
2024-06-23 20:05:44.805 GMT+08:00	[INFO] 执行成功...	
2024-06-23 20:08:12.677 GMT+08:00	[INFO] 操作影响的记录行数: 5	
2024-06-23 20:08:12.677 GMT+08:00	[INFO] 执行时间: 140 ms	
2024-06-23 20:08:12.677 GMT+08:00	[INFO] 执行成功...	
2024-06-23 20:09:16.075 GMT+08:00	[INFO] 操作影响的记录行数: 0	
2024-06-23 20:09:16.075 GMT+08:00	[INFO] 执行时间: 32 ms	
2024-06-23 20:09:16.075 GMT+08:00	[INFO] 执行成功...	

运行时间: 79 ms

无法编辑查询结果。

视图 刷新

The screenshot shows the Data Studio interface with a database connection to LIBRARAY014@mycount. The left sidebar displays the database schema with tables like BookStore, LIBRARAY014, and various system catalogs. The main area shows a table named 'book' with columns bid, isbn, bname, author, pub, price, and cate. A CREATE VIEW statement is being typed in the SQL editor:

```
CREATE VIEW myView AS
SELECT * FROM book;
```

The right panel contains descriptive text about views, a '示例' (Example) section with a sample query, and sections for '语法' (Syntax) and '参数说明' (Parameter Description).

10.

The screenshot shows the Data Studio interface with a database connection to LIBRARAY014@mycount. The left sidebar shows the schema. The main area displays a DELETE query in the SQL editor:

```
DELETE FROM BORROW014
WHERE RID = '24014';
```

The execution results show the deletion of a record from the BORROW014 table. The right panel lists various ALTER statements available in the current context.

【小结或讨论】

已完成

通过 SQL 语句顺利完成了本次考试的任务