

# 实验报告

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## 数据表信息

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- **students (sid, sname, email, grade)**  
学生表，包含学生的编号、姓名、邮箱和年级。
  - **teachers (tid, tname, email, salary)**  
教师表，包含教师的编号、姓名、邮箱和薪水。
  - **courses (cid, cname, hour)**  
课程表，包含课程的编号、名称和课时。
  - **choices (no, sid, tid, cid, score)**  
选课表，包含选课记录的编号、学生编号、教师编号、课程编号和成绩。
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**1.在school数据库上创建用户“王二”，在students表上创建视图grade2000，将年级为2000的学生元组放入视图。**

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```
exec sp_addlogin '王二', '123456', 'School', 'English'  
go  
use School  
go  
exec sp_grantdbaccess '王二'
```

The screenshot shows a SQL Server Enterprise Manager console window with the following commands entered:

```
exec sp_addlogin '王二', '123456', 'School', 'English'
go
use School
go
exec sp_grantdbaccess '王二'
```

Below the console, the '统计 1' (Statistics 1) window displays the following execution statistics:

Name	Value
Queries	3
Updated Rows	0
Execute time	0.022s
Fetch time	0.000s
Total time	0.022s
Start time	2024-12-09 16:27:51.741
Finish time	2024-12-09 16:27:51.765

```
USE School;
GO

-- 创建视图 grade2000
CREATE VIEW grade2000 AS
SELECT sid, sname, email, grade
FROM students
WHERE grade = 2000;
GO
```

**CREATE VIEW grade2000 AS:** 创建一个名为 `grade2000` 的视图。

**SELECT sid, sname, email, grade FROM students WHERE grade = 2000;:** 从 `students` 表中选择年级为2000的学生记录，并将这些记录放入视图 `grade2000` 中。

admin

dbo@School

\*<admin> Console

USE School;  
GO

-- 创建视图 grade2000  
CREATE VIEW grade2000 AS  
SELECT sid, sname, email, grade  
FROM students  
WHERE grade = 2000;  
GO

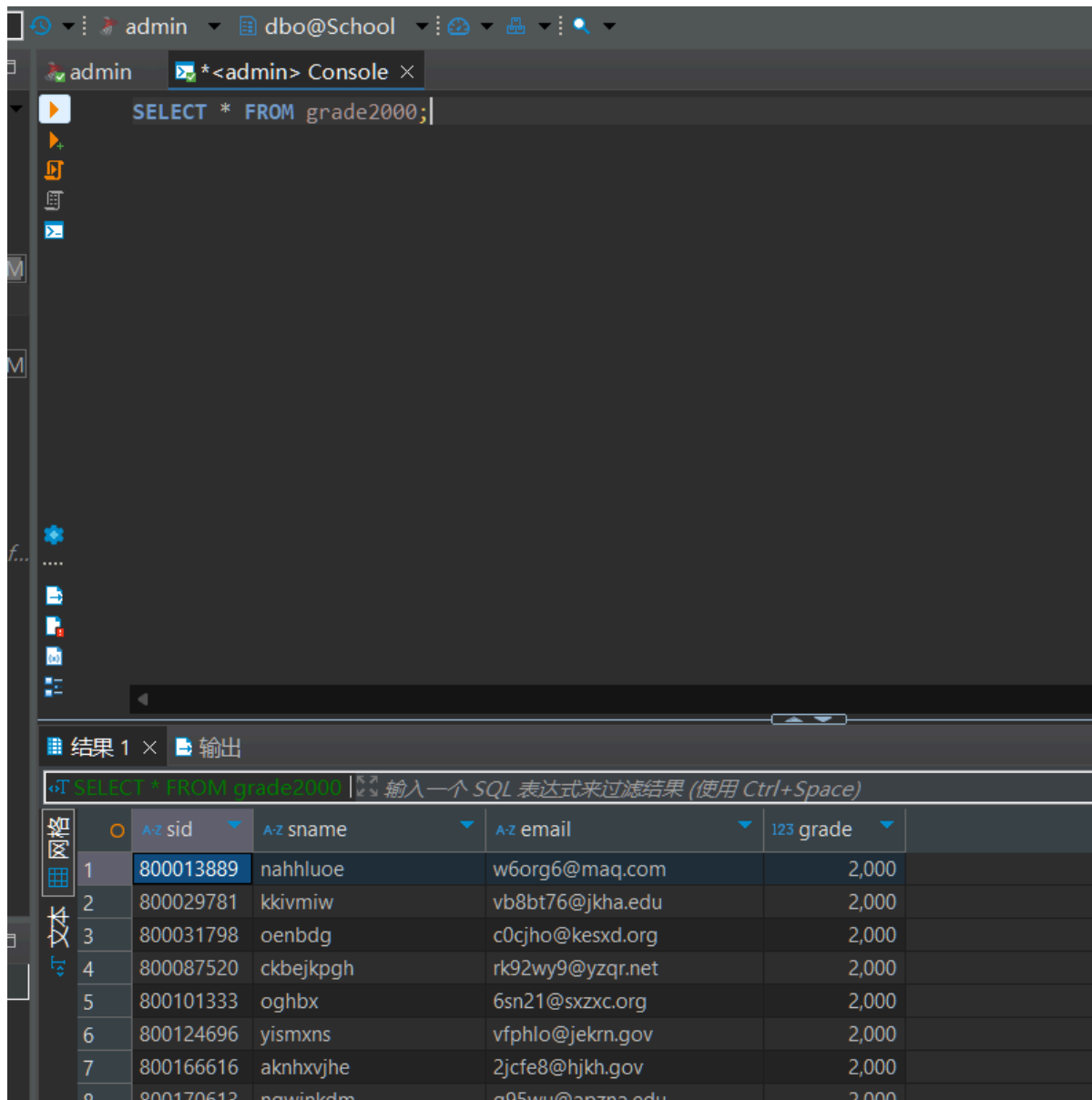
统计 1

输出

Name	Value
Queries	2
Updated Rows	0
Execute time	0.004s
Fetch time	0.000s
Total time	0.004s
Start time	2024-12-09 16:29:13.580
Finish time	2024-12-09 16:29:13.590

查询验证

```
SELECT * FROM grade2000;
```



## 2.授予用户王二在视图grade2000的select权限。

```
USE School;
GO

-- 授予用户王二在视图 grade2000 的 SELECT 权限
GRANT SELECT ON grade2000 TO 王二;
GO
```

admin

\*<admin> Console ×

USE School;

GO

-- 授予用户王二在视图 grade2000 的 SELECT 权限

GRANT SELECT ON grade2000 TO 王二;

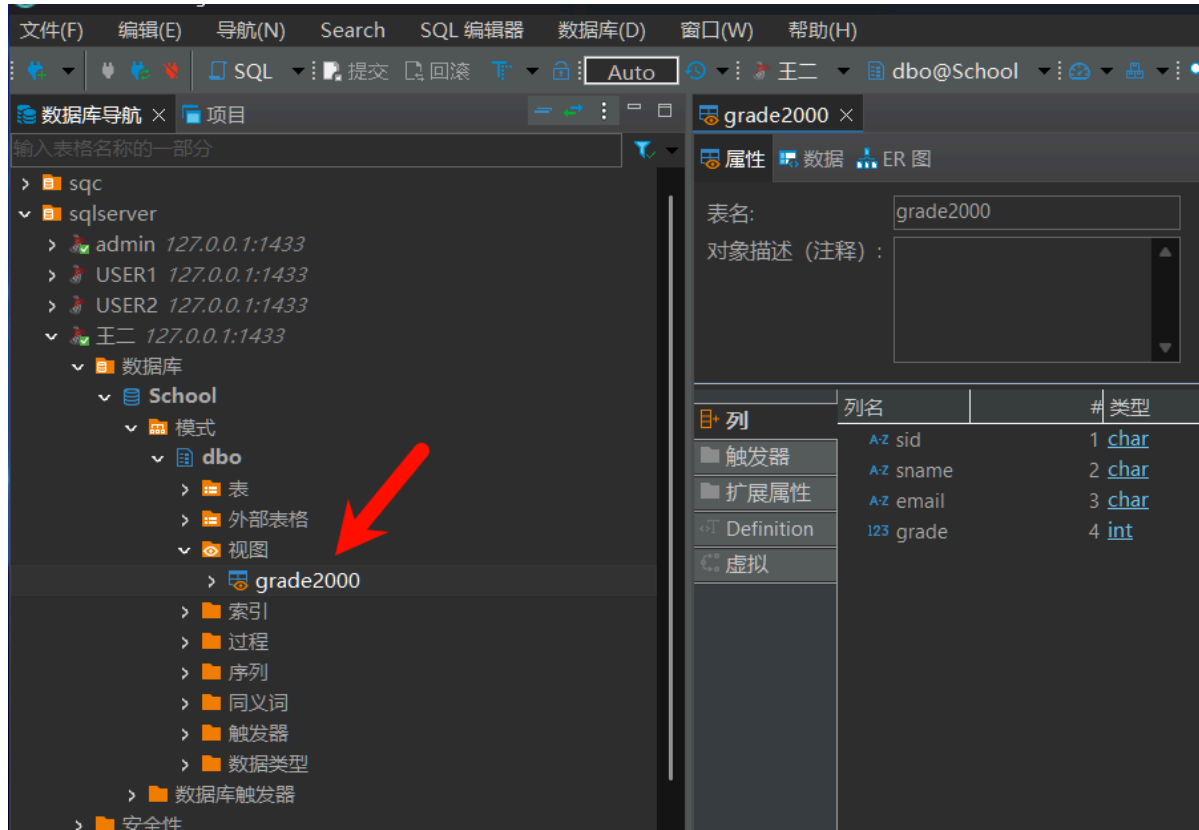
GO

统计 1 ×

输出

Name	Value	
Queries	2	
Updated Rows	0	
Execute time	0.010s	
Fetch time	0.000s	
Total time	0.010s	
Start time	2024-12-09 16:31:18.386	
Finish time	2024-12-09 16:31:18.398	

王二查询视图成功



### 3.授予用户王二在视图grade2000的修改sname列的权限。

```
USE School;  
GO
```

```
-- 授予用户王二在视图 grade2000 的 UPDATE 权限，仅限于 sname 列  
GRANT UPDATE(sname) ON grade2000 TO 王二;  
GO
```

grade2000 \* <admin> Console ×

```
USE School;
GO

-- 授予用户王二在视图 grade2000 的 UPDATE 权限，仅限于 sname 列
GRANT UPDATE(sname) ON grade2000 TO 王二;
GO
```

统计 1 × 输出

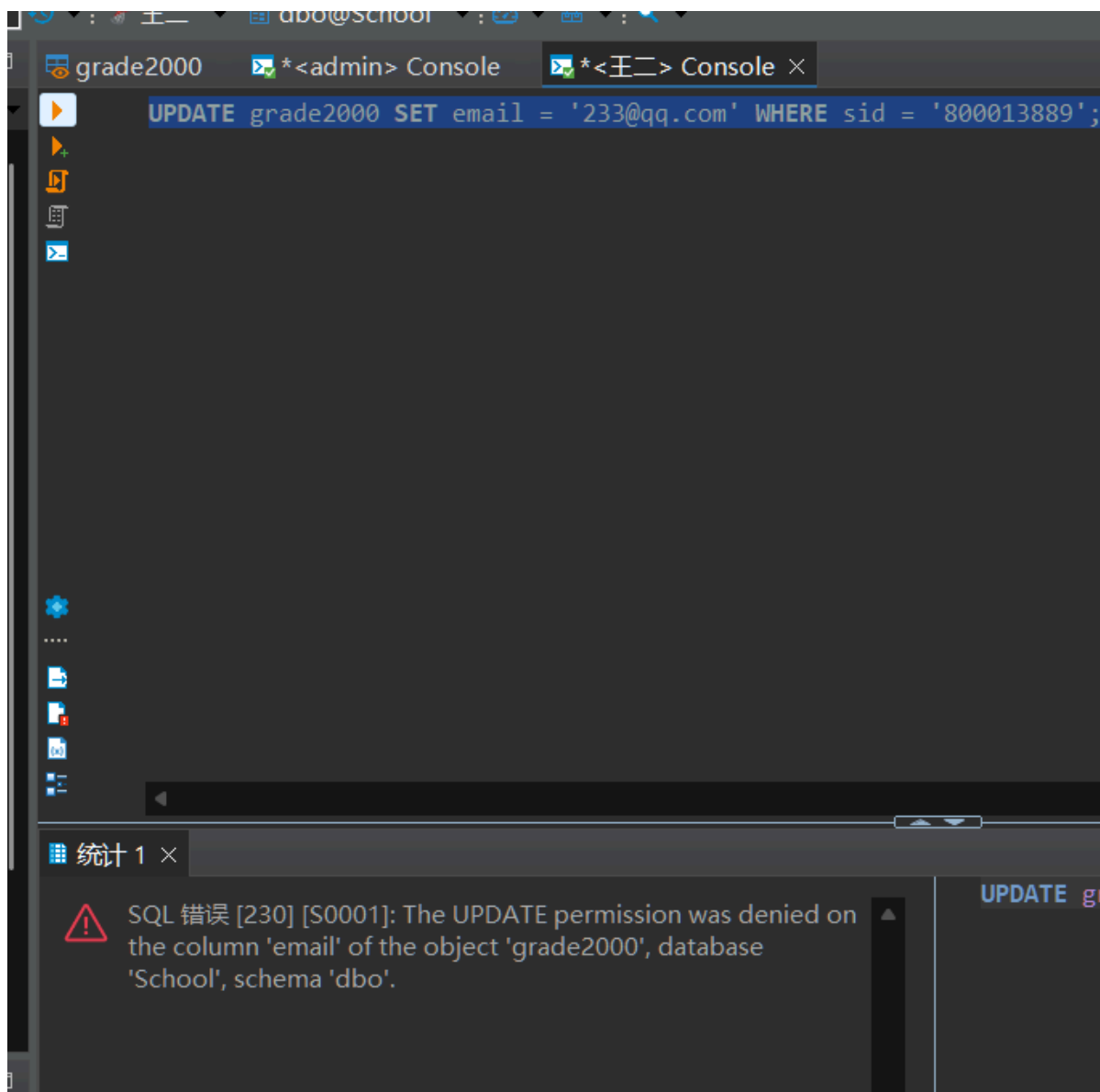
Name	Value
Queries	2
Updated Rows	0
Execute time	0.008s
Fetch time	0.000s
Total time	0.008s
Start time	2024-12-09 16:33:21.568
Finish time	2024-12-09 16:33:21.579

验证王二改 sname

```
UPDATE grade2000 SET sname = '233' WHERE sid = '800013889';
```

```
UPDATE grade2000 SET email = '233@qq.com' WHERE sid = '800013889';
```





## 4.查看SQL Server错误日志。

查看所有日志

```
DBCC LOG ('School', -1);
```

grade2000 \*<admin> Console \*<王二> Console

DBCC LOG ('School', -1);

结果 1 x 统计 1 输出

DBCC LOG ('School', -1) 输入一个 SQL 表达式来过滤结果 (使用 Ctrl+Space)

	A-Z Current LSN	A-Z Operation	A-Z Context	A-Z Transaction ID	LogBlockGeneration	Tag
1	000004e0:00000330:0001	LOP_SET_BITS	LCX_DIFF_MAP	0000:00000000	123	0
2	000004e0:00000330:0002	LOP_BEGIN_XACT	LCX_NULL	0000:00085ce3		0
3	000004e0:00000330:0003	LOP_MODIFY_COLUMNS	LCX_CLUSTERED	0000:00085ce3		0
4	000004e0:00000330:0004	LOP_SET_BITS	LCX_DIFF_MAP	0000:00000000		0
5	000004e0:00000330:0005	LOP_PREP_XACT	LCX_NULL	0000:00085ce3		0
6	000004e0:00000338:0001	LOP_COMMIT_XACT	LCX_NULL	0000:00085ce3		0
7	000004e0:00000340:0001	LOP_BEGIN_XACT	LCX_NULL	0000:00085ce4		0
8	000004e0:00000340:0002	LOP_MODIFY_ROW	LCX_BOOT_PAGE	0000:00085ce4		0
9	000004e0:00000340:0001	LOP_COMMIT_XACT	LCX_NULL	0000:00085ce4		0

查看错误日志

```
EXEC sp_readerrorlog;
```

grade2000 \*<admin> Console \*<王二> Console

EXEC sp\_readerrorlog;

结果 1 x 输出

EXEC sp\_readerrorlog 输入一个 SQL 表达式来过滤结果 (使用 Ctrl+Space)

	LogDate	A-Z ProcessInfo	A-Z Text
1	2024-12-09 16:26:59.800	spid62	Using 'xpstar.dll' version '2019.150.2000' to execute extended stored procedure 'xp_instance_regread'.
2	2024-12-09 16:26:59.780	spid62	Attempting to load library 'xpstar.dll' into memory. This is an informational message only. No user action is required.
3	2024-12-09 16:26:31.780	spid59	Attempting to load library 'xpstar.dll' into memory. This is an informational message only. No user action is required.
4	2024-12-09 16:26:31.780	spid59	Using 'xpstar.dll' version '2019.150.2000' to execute extended stored procedure 'xp_qv'. This is an informational message only. No user action is required.
5	2024-12-09 16:26:31.420	spid59	Using 'xplog70.dll' version '2019.150.2000' to execute extended stored procedure 'xp_msver'. This is an informational message only. No user action is required.
6	2024-12-09 16:26:31.400	spid59	Attempting to load library 'xplog70.dll' into memory. This is an informational message only. No user action is required.
7	2024-12-09 16:21:50.290	spid16s	Service Broker manager has started.
8	2024-12-09 16:21:50.290	spid10s	Recovery is complete. This is an informational message only. No user action is required.
9	2024-12-09 16:21:50.280	spid15s	The tempdb database has 8 data file(s).
10	2024-12-09 16:21:50.280	spid16s	The Service Broker endpoint is in disabled or stopped state.
11	2024-12-09 16:21:50.280	spid16s	The Database Mirroring endpoint is in disabled or stopped state.
12	2024-12-09 16:21:49.990	spid27s	Parallel redo is shutdown for database 'School' with worker pool size [8].
13	2024-12-09 16:21:49.990	spid15s	Starting up database 'tempdb'.
14	2024-12-09 16:21:49.900	spid15s	Clearing tempdb database.
15	2024-12-09 16:21:49.680	spid27s	Parallel redo is started for database 'School' with worker pool size [8].
16	2024-12-09 16:21:49.680	spid15s	Starting up database 'model'.
17	2024-12-09 16:21:49.170	spid22s	SQL Server is now ready for client connections. This is an informational message; no user action is required.

或者用GUI查看日志

选择日志

SQL Server

当前 - 2024/12/9 16:26:00

存档编号1 - 2024/12/2 17:22:00

存档编号2 - 2024/11/25 16:29:00

存档编号3 - 2024/11/18 16:53:00

存档编号4 - 2024/11/14 8:31:00

存档编号5 - 2024/11/11 19:04:00

存档编号6 - 2024/11/4 20:25:00

SQL Server 代理

数据库邮件

Windows NT

状态

上次刷新:  
2024/12/9 16:41:43

筛选器: 未应用

查看筛选设置

难度

已完成(73 条记录)。

加载日志 导出 刷新 筛选... 搜索... 停止 帮助

日志文件摘要(S): 未应用任何筛选器

日期	源	消息
2024/12/9 16:26:59	spid62	Using 'xpstar.dll' version '2019.150.2000' to execute extended stored procedure 'xp_instance_regread'. This is an informational message only. No user action is required.
2024/12/9 16:26:59	spid62	Attempting to load library 'xpstar.dll' into memory. This is an informational message only. No user action is required.
2024/12/9 16:26:31	spid59	Using 'xpqlbot.dll' version '2019.150.2000' to execute extended stored procedure 'xp_qv'. This is an informational message only. No user action is required.
2024/12/9 16:26:31	spid59	Attempting to load library 'xpqlbot.dll' into memory. This is an informational message only. No user action is required.
2024/12/9 16:26:31	spid59	Using 'xplog70.dll' version '2019.150.2000' to execute extended stored procedure 'xp_msver'. This is an informational message only. No user action is required.
2024/12/9 16:26:31	spid59	Attempting to load library 'xplog70.dll' into memory. This is an informational message only. No user action is required.
2024/12/9 16:21:50	spid10s	Recovery is complete. This is an informational message only. No user action is required.
2024/12/9 16:21:50	spid16s	Service Broker manager has started.
2024/12/9 16:21:50	spid16s	The Database Mirroring endpoint is in disabled or stopped state.
2024/12/9 16:21:50	spid16s	The Service Broker endpoint is in disabled or stopped state.
2024/12/9 16:21:50	spid15s	The tempdb database has 8 data file(s).
2024/12/9 16:21:49	spid15s	Starting up database 'tempdb'.
2024/12/9 16:21:49	spid27s	Parallel redo is shutdown for database 'School' with worker pool size [8].
2024/12/9 16:21:49	spid15s	Clearing tempdb database.
2024/12/9 16:21:49	spid15s	Starting up database 'model'.
2024/12/9 16:21:49	spid27s	Parallel redo is started for database 'School' with worker pool size [8].
2024/12/9 16:21:49	Server	The SQL Server Network Interface library could not register the Service Principal Name (SPN) [ MSSQLSvc/xytx:1433 ] for the instance.
2024/12/9 16:21:49	Server	The SQL Server Network Interface library could not register the Service Principal Name (SPN) [ MSSQLSvc/xytx ] for the instance.
2024/12/9 16:21:49	spid15s	The resource database build version is 15.00.2130. This is an informational message only. No user action is required.

所进行详细信息(D):  
日期: 2024/12/9 16:26:59  
日志: SQL Server (当前 - 2024/12/9 16:26:00)  
源: spid62  
消息: Using 'xpstar.dll' version '2019.150.2000' to execute extended stored procedure 'xp\_instance\_regread'. This is an informational message only. No user action is required.

关闭(C)