

**Institute of Computer Technology
Ganpat University
(2CSE301) DATABASE MANAGEMENT SYSTEM**

Practical 8 MySQL Views (1)

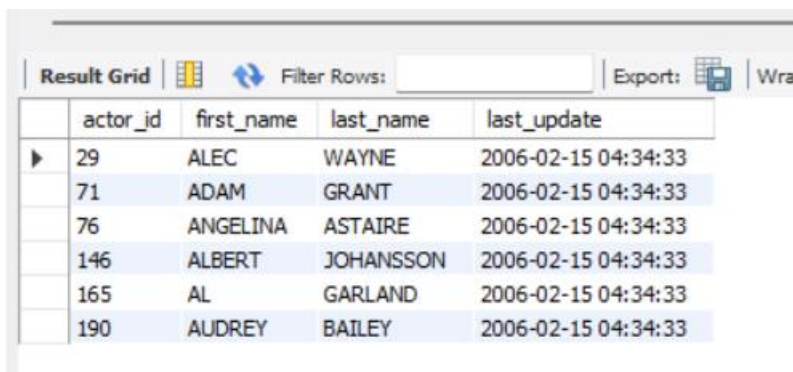
Database and tables: <https://dev.mysql.com/doc/sakila/en/>

Actor Table

1. Create a view to store all information of the actors whose name starts with 'A' and last name contains 'A'. Verify whether the view is created or not by displaying all the data from view.

create view actors_with_a_in_name as select * from actor where first_name like 'A%' and last_name like '%A%';

select * from actors_with_a_in_name;



The screenshot shows a MySQL database interface with a 'Result Grid' tab selected. The grid displays 6 rows of data from the 'actors_with_a_in_name' view. The columns are 'actor_id', 'first_name', 'last_name', and 'last_update'. The data is as follows:

	actor_id	first_name	last_name	last_update
▶	29	ALEC	WAYNE	2006-02-15 04:34:33
	71	ADAM	GRANT	2006-02-15 04:34:33
	76	ANGELINA	ASTAIRE	2006-02-15 04:34:33
	146	ALBERT	JOHANSSON	2006-02-15 04:34:33
	165	AL	GARLAND	2006-02-15 04:34:33
	190	AUDREY	BAILEY	2006-02-15 04:34:33

2. Create a view which displays the actor table in the descending order of their last name

create view actor_ordered_by_last_name as select * from actor order by last_name desc;

select * from actor_ordered_by_last_name;

Result Grid				
	actor_id	first_name	last_name	last_update
▶	85	MINNIE	ZELLWEGER	2006-02-15 04:34:33
	186	JULIA	ZELLWEGER	2006-02-15 04:34:33
	111	CAMERON	ZELLWEGER	2006-02-15 04:34:33
	63	CAMERON	WRAY	2006-02-15 04:34:33
	13	UMA	WOOD	2006-02-15 04:34:33
	156	FAY	WOOD	2006-02-15 04:34:33
	144	ANGELA	WITHERSPOON	2006-02-15 04:34:33
	68	RIP	WINSLET	2006-02-15 04:34:33
	147	FAY	WINSLET	2006-02-15 04:34:33
	168	WILL	WILSON	2006-02-15 04:34:33
	96	GENE	WILLIS	2006-02-15 04:34:33
	83	BEN	WILLIS	2006-02-15 04:34:33
	164	HUMPHREY	WILLIS	2006-02-15 04:34:33
	72	SEAN	WILLIAMS	2006-02-15 04:34:33
	137	MORGAN	WILLIAMS	2006-02-15 04:34:33

actor_ordered_by_last_name3 x

- Delete the above created view
drop view actor_ordered_by_last_name;

```

✓ 4 08:47:31 select * from actor_ordered_by_last_name LIMIT 0, 1000
✓ 5 08:50:06 drop view actor_ordered_by_last_name

```

Language Table

- Create a view to display language id, name and last update
create view lang as select * from language;
select * from lang;

```

12 • /*4*/create view lang as select * from language;
13 • select * from lang;

```

Result Grid			
	language_id	name	last_update
▶	1	English	2006-02-15 05:02:19
	2	Italian	2006-02-15 05:02:19
	3	Japanese	2006-02-15 05:02:19
	4	Mandarin	2006-02-15 05:02:19
	5	French	2006-02-15 05:02:19
	6	German	2006-02-15 05:02:19

- Insert following record with name and last update in the view, also verify whether it has been inserted in base table or not
(‘Hindi’, ‘2013-07-05 ‘12:23:05’)
/*5*/insert into lang(name,last_update) values ('HINDI','2013-07-05 12:23:05');
select * from lang;

```
15 • /*5*/insert into lang(name,last_update) values ('HINDI','2013-07-05 12:23:05');
16 • select * from lang;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	language_id	name	last_update
▶	1	English	2006-02-15 05:02:19
	2	Italian	2006-02-15 05:02:19
	3	Japanese	2006-02-15 05:02:19
	4	Mandarin	2006-02-15 05:02:19
	5	French	2006-02-15 05:02:19
	6	German	2006-02-15 05:02:19
	7	HINDI	2013-07-05 12:23:05

6. Update the language of the newly inserted record to 'Spanish' and verify whether it has been updated in the base table or not

```
/*6*/ UPDATE lang set name='SPANISH' WHERE name='HINDI';
SELECT * FROM lang WHERE name = 'SPANISH';
```

```
18 • /*6*/ UPDATE lang set name='SPANISH' WHERE name='HINDI';
19 • SELECT * FROM lang WHERE name = 'SPANISH';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	language_id	name	last_update
▶	7	SPANISH	2023-09-27 10:51:49

7. Delete the record of Spanish Language and verify whether it has been deleted from the base table or not

```
/*7*/delete from lang where name='SPANISH';
```

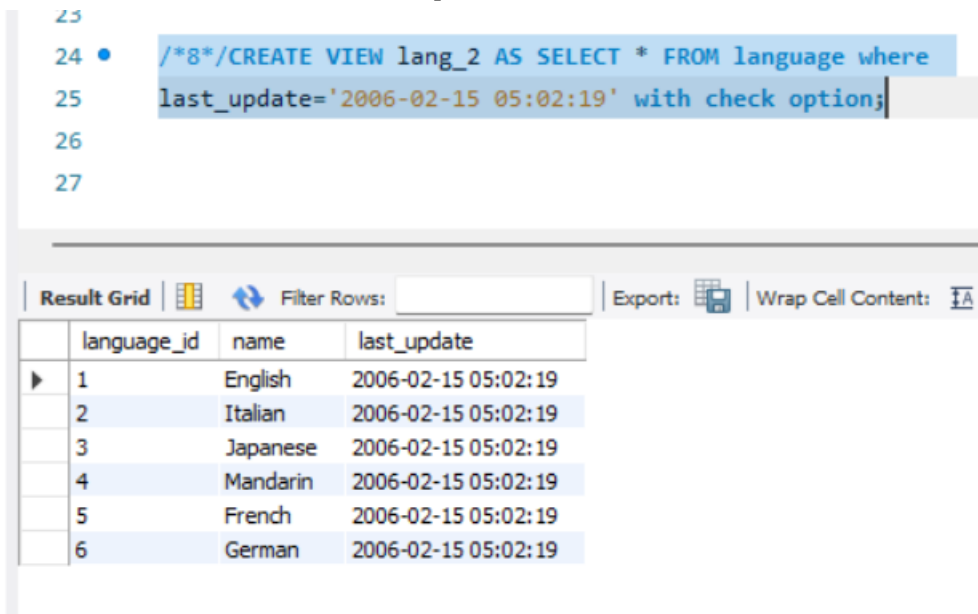
```
21 • /*7*/delete from lang where name='SPANISH';
22 • select * from lang;
```

Result Grid | Filter Rows: | Export: | Wrap C

	language_id	name	last_update
▶	1	English	2006-02-15 05:02:19
	2	Italian	2006-02-15 05:02:19
	3	Japanese	2006-02-15 05:02:19
	4	Mandarin	2006-02-15 05:02:19
	5	French	2006-02-15 05:02:19
	6	German	2006-02-15 05:02:19

8. Create a view which stores language id, name and last update for those records which are last updated on '2006-02-15 05:02:19' with check option

/*8*/CREATE VIEW lang_2 AS SELECT * FROM language where last_update='2006-02-15 05:02:19' with check option;



The screenshot shows a SQL query editor with the following code:

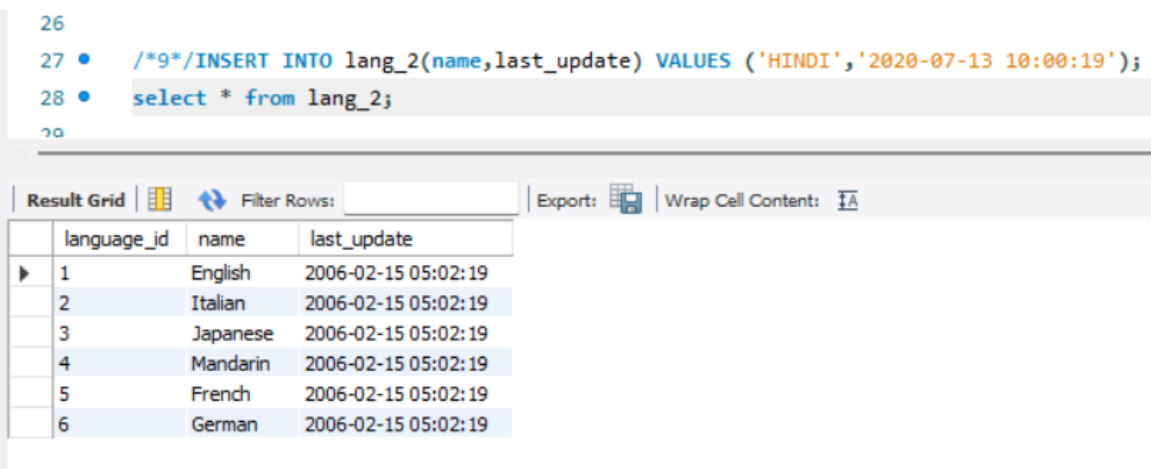
```
23
24 • /*8*/CREATE VIEW lang_2 AS SELECT * FROM language where
25 last_update='2006-02-15 05:02:19' with check option;
26
27
```

Below the editor is a 'Result Grid' showing the data from the 'language' table. The grid has columns: language_id, name, and last_update. The data is as follows:

language_id	name	last_update
1	English	2006-02-15 05:02:19
2	Italian	2006-02-15 05:02:19
3	Japanese	2006-02-15 05:02:19
4	Mandarin	2006-02-15 05:02:19
5	French	2006-02-15 05:02:19
6	German	2006-02-15 05:02:19

9. Insert a new record with language Hindi and last update as '2020-07-13 10:00:19' and verify whether it has been inserted or not

/*9*/INSERT INTO lang_2(name,last_update) VALUES ('HINDI','2020- 07-13 10:00:19');



The screenshot shows a SQL query editor with the following code:

```
26
27 • /*9*/INSERT INTO lang_2(name,last_update) VALUES ('HINDI','2020-07-13 10:00:19');
28 • select * from lang_2;
29
```

Below the editor is a 'Result Grid' showing the data from the 'lang_2' view. The grid has columns: language_id, name, and last_update. The data is as follows:

language_id	name	last_update
1	English	2006-02-15 05:02:19
2	Italian	2006-02-15 05:02:19
3	Japanese	2006-02-15 05:02:19
4	Mandarin	2006-02-15 05:02:19
5	French	2006-02-15 05:02:19
6	German	2006-02-15 05:02:19

10. Insert a new record with language Hindi and last update as '2006-02-15 05:02:19' and verify whether it has been inserted or not

/*10*/INSERT INTO lang_2(name,last_update) VALUES ('HINDI','2006- 02-15 05:02:19');

```
30 • /*10*/INSERT INTO lang_2(name,last_update) VALUES ('HINDI','2006-02-15 05:02:19');
31 • select * from lang_2;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [FA](#)

	language_id	name	last_update
▶	1	English	2006-02-15 05:02:19
	2	Italian	2006-02-15 05:02:19
	3	Japanese	2006-02-15 05:02:19
	4	Mandarin	2006-02-15 05:02:19
	5	French	2006-02-15 05:02:19
	6	German	2006-02-15 05:02:19
	8	HINDI	2006-02-15 05:02:19
	9	HINDI	2006-02-15 05:02:19

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11. Update the newly inserted record with last update as '2020-07-13 10:00:19' and verify whether it has been updated or not

/*11*/UPDATE lang_2 SET last_update='2020-07-13 10:00:19' WHERE name='HINDI';

```
33 • /*11*/UPDATE lang_2 SET last_update='2020-07-13 10:00:19' WHERE name='HINDI';
34 • select * from lang_2;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [FA](#)

	language_id	name	last_update
▶	1	English	2006-02-15 05:02:19
	2	Italian	2006-02-15 05:02:19
	3	Japanese	2006-02-15 05:02:19
	4	Mandarin	2006-02-15 05:02:19
	5	French	2006-02-15 05:02:19
	6	German	2006-02-15 05:02:19
	8	HINDI	2006-02-15 05:02:19
	9	HINDI	2006-02-15 05:02:19

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