CREATE VIEW EmployeeInfo AS SELECT firstname, lastname, salary FROM employee;

# Database organisation

## Structure for view employeeinfo

Column	Туре	Null	Default
firstname	varchar(20)	Yes	NULL
lastname	varchar(20)	Yes	NULL
salary	int	Yes	NULL

# Dumping data for table employeeinfo

Sam	Newton	50000
Elvin	Gomes	60000
Jack	Sparrow	75000

SELECT TABLE\_NAME, IS\_UPDATABLE
FROM INFORMATION\_SCHEMA.VIEWS
WHERE TABLE\_SCHEMA = 'organisation';

# Database INFORMATION\_SCHEMA

### Table structure for table VIEWS

Column	Туре	Null	Default
TABLE_CATALOG	varchar(64)	Yes	NULL
TABLE_SCHEMA	varchar(64)	Yes	NULL
TABLE_NAME	varchar(64)	Yes	NULL
VIEW_DEFINITION	longtext	Yes	NULL
CHECK_OPTION	<pre>enum('NONE', 'LOCAL', 'CASCADED')</pre>	Yes	NULL
IS_UPDATABLE	enum('NO', 'YES')	Yes	NULL
DEFINER	varchar(288)	Yes	NULL
SECURITY_TYPE	varchar(7)	Yes	NULL
CHARACTER_SET_CLIENT	varchar(64)	No	
COLLATION_CONNECTION	varchar(64)	No	

## Dumping data for table VIEWS

employeeinfo YES

create view clientinfo as select client\_id, clientName from client;

## Database organisation

### Structure for view clientinfo

	Column	Туре	Null	Default
client_	_id	varchar(20)	Yes	NULL
clientN	Name	varchar(20)	Yes	NULL

## Dumping data for table clientinfo

C1 Microsoft

C2 Google

SELECT TABLE\_NAME, IS\_UPDATABLE

FROM INFORMATION\_SCHEMA.VIEWS

WHERE TABLE\_SCHEMA = 'organisation' AND TABLE\_NAME='clientinfo';

## Database INFORMATION\_SCHEMA

### Table structure for table VIEWS

Column	Туре	Null	Default
TABLE_CATALOG	varchar(64)	Yes	NULL
TABLE_SCHEMA	varchar(64)	Yes	NULL
TABLE_NAME	varchar(64)	Yes	NULL
VIEW_DEFINITION	longtext	Yes	NULL
CHECK_OPTION	<pre>enum('NONE', 'LOCAL', 'CASCADED')</pre>	Yes	NULL
IS_UPDATABLE	enum('NO', 'YES')	Yes	NULL
DEFINER	varchar(288)	Yes	NULL
SECURITY_TYPE	varchar(7)	Yes	NULL
CHARACTER_SET_CLIENT	varchar(64)	No	
COLLATION_CONNECTION	varchar(64)	No	

#### Dumping data for table VIEWS

clientinfo YES

3. CREATE VIEW employeetotalsales AS SELECT e.emp\_id, e.firstname,e.lastname,w.totalSales

FROM employee e JOIN workswith w ON e.emp\_id = w.emp\_id;

## Database organisation

### Structure for view employeetotalsales

	Column	Туре	Null	Default
emp_id		int	Yes	NULL
firstnam	ne	varchar(20)	Yes	NULL
lastname	!	varchar(20)	Yes	NULL
totalSal	.es	varchar(20)	Yes	NULL

## Dumping data for table employeetotalsales

101	Sam	Newton	1 Million
102	Elvin	Gomes	10 Million
103	Jack	Sparrow	5 Lakh

SELECT TABLE\_NAME, IS\_UPDATABLE

FROM INFORMATION\_SCHEMA.VIEWS

WHERE TABLE\_SCHEMA = 'organisation' AND TABLE\_NAME=' employeetotalsales ';

# ${\bf Database~INFORMATION\_SCHEMA}$

### Table structure for table VIEWS

Column	Туре	Null	Default
TABLE_CATALOG	varchar(64)	Yes	NULL
TABLE_SCHEMA	varchar(64)	Yes	NULL
TABLE NAME	varchar(64)	Yes	NULL

VIEW_DEFINITION	longtext	Yes	NULL
CHECK_OPTION	<pre>enum('NONE', 'LOCAL', 'CASCADED')</pre>	Yes	NULL
IS_UPDATABLE	enum('NO', 'YES')	Yes	NULL
DEFINER	varchar(288)	Yes	NULL
SECURITY_TYPE	varchar(7)	Yes	NULL
CHARACTER_SET_CLIENT	varchar(64)	No	
COLLATION_CONNECTION	varchar(64)	No	

## Dumping data for table VIEWS

employeetotalsales YES

4. CREATE VIEW ManagerClients AS SELECT b.mgr\_id, e.firstname AS manager\_firstname,

e.lastname AS manager\_lastname,c.client\_id,c.clientName

FROM branch b

JOIN employee e ON b.mgr\_id = e.emp\_id

JOIN client c ON b.branch\_id = c.branchid;

## Database organisation

## Structure for view managerclients

	Column	Туре	Null	Default
mgr_id		int	Yes	NULL
manager_firs	tname	varchar(20)	Yes	NULL
manager_last	name	varchar(20)	Yes	NULL
client_id		varchar(20)	Yes	NULL
clientName		varchar(20)	Yes	NULL

### Dumping data for table managerclients

101	Sam	Newton	C2	Google
103	Jack	Sparrow	C1	Microsoft

5. CREATE VIEW EmployeeClients AS SELECT e.emp\_id, e.firstname AS employee\_firstname,e.lastname AS employee\_lastname, c.client\_id, c.clientName FROM employee e

JOIN workswith w ON e.emp\_id = w.emp\_id

JOIN client c ON w.client\_id = c.client\_id;

### Database organisation

#### Structure for view employeeclients

	Column	Туре	Null	Default
emp_id		int	Yes	NULL
employee_firs	tname	varchar(20)	Yes	NULL
employee_last	name	varchar(20)	Yes	NULL
client_id		varchar(20)	Yes	NULL
clientName		varchar(20)	Yes	NULL

#### Dumping data for table employeeclients

101	Sam	Newton	C1	Microsoft
102	Elvin	Gomes	C2	Google
103	Jack	Sparrow	C1	Microsoft

### 6. CREATE VIEW EmployeeBranchClient AS

SELECT e.firstname AS employee\_firstname, e.lastname AS employee\_lastname,b.branchName,c.clientName

FROM employee e

JOIN branch b ON e.branchid = b.branch\_id

JOIN workswith w ON e.emp\_id = w.emp\_id

JOIN client c ON w.client\_id = c.client\_id;

## Database organisation

#### Structure for view employeebranchclient

	Column	Туре	Null	Default
employee_first	name	varchar(20)	Yes	NULL

employee_lastname	varchar(20)	Yes	NULL
branchName	varchar(20)	Yes	NULL
clientName	varchar(20)	Yes	NULL

### Dumping data for table employeebranchclient

Jack	Sparrow	Admin	Microsoft
Sam	Newton	Finance	Microsoft
Elvin	Gomes	Admin	Google

### 7. CREATE VIEW EmployeesPerBranch AS

SELECT b.branch\_id, b.branchName,COUNT(e.emp\_id) AS numEmployees
FROM branch b

JOIN employee e ON b.branch\_id = e.branchid

GROUP BY b.branch\_id, b.branchName;

### Database organisation

### Structure for view employeesperbranch

	Column	Туре	Null	Default
branch_id		varchar(20)	Yes	NULL
branchName		varchar(20)	Yes	NULL
numEmploye	es	bigint	No	0

## Dumping data for table employeesperbranch

B1	Finance	1
B2	Admin	2

## 8. SELECT \* FROM EmployeeClients WHERE clientName = 'Google';

### Database organisation

## Structure for view EmployeeClients

	Column	Туре	Null	Default
emp_id		int	Yes	NULL

employee_firstname	varchar(20)	Yes	NULL
employee_lastname	varchar(20)	Yes	NULL
client_id	varchar(20)	Yes	NULL
clientName	varchar(20)	Yes	NULL

## Dumping data for table EmployeeClients

102 LIVIN dollics CZ doogi	102	Elvin	Gomes	C2	Google
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9. SELECT numEmployees from employeesperbranch WHERE branchName = "Finance";

## Database organisation

### Structure for view employeesperbranch

	Column	Туре	Null	Default
branch_id		varchar(20)	Yes	NULL
branchName	2	varchar(20)	Yes	NULL
numEmploye	ees	bigint	No	0

### Dumping data for table employeesperbranch

1

10. SELECT branch\_id,branchName, MAX(numEmployees) AS maxNumEmployees FROM EmployeesPerBranch;

## Database organisation

### Structure for view EmployeesPerBranch

	Column	Туре	Null	Default
branch_id		varchar(20)	Yes	NULL
branchName	e	varchar(20)	Yes	NULL
numEmploy	ees	bigint	No	0

# Dumping data for table EmployeesPerBranch

B1 Finance 2