

```
mysql> select * from employees1;
```

employee_id	first_name	last_name	device_serial	salary
1	John	Smith	ABC123	60000
2	Jane	Doe	DEF456	65000
3	Bob	Johnson	GHI789	70000
4	Sally	Fields	JKL012	75000
5	Michael	Smith	MNO345	80000
6	Emily	Jones	PQR678	85000
7	David	Williams	STU901	90000
8	Sarah	Johnson	VWX234	95000
9	James	Brown	YZA567	100000
10	Emma	Miller	BCD890	105000
11	William	Davis	EFG123	110000
12	Olivia	Garcia	HIJ456	115000
13	Christopher	Rodriguez	KLM789	120000
14	Isabella	Wilson	NOP012	125000
15	Matthew	Martinez	QRS345	130000
16	Sophia	Anderson	TUV678	135000
17	Daniel	Smith	WXY901	140000
18	Mia	Thomas	ZAB234	145000
19	Joseph	Hernandez	CDE567	150000
20	Abigail	Smith	FGH890	155000

```
20 rows in set (0.00 sec)
```

```
mysql> desc employees1;
```

Field	Type	Null	Key	Default	Extra
employee_id	int	YES	MUL	NULL	
first_name	varchar(50)	YES		NULL	
last_name	varchar(50)	YES		NULL	
device_serial	varchar(15)	YES		NULL	
salary	int	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> create view v1 as select employee_id,salary from employees1;  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc v1;
```

Field	Type	Null	Key	Default	Extra
employee_id	int	YES		NULL	
salary	int	YES		NULL	

```
2 rows in set (0.01 sec)
```



employee_id	salary
1	60000
2	65000
3	70000
4	75000
5	80000
6	85000
7	90000
8	95000
9	100000
10	105000
11	110000
12	115000
13	120000
14	125000
15	130000
16	135000
17	140000
18	145000
19	150000
20	155000
101	100001

21 rows in set (0.00 sec)

```
mysql> select * from employees1;
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17	Daniel	Smith	WXY901	140000
18	Mia	Thomas	ZAB234	145000
19	Joseph	Hernandez	CDE567	150000
20	Abigail	Smith	FGH890	155000
101	NULL	NULL	NULL	100001



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20	Abigail	Smith	FGH890	155000

```
20 rows in set (0.00 sec)
```

```
mysql> select first_name from employees1 where salary>145000;
```

first_name
Joseph
Abigail

```
2 rows in set (0.00 sec)
```

```
mysql> explain select first_name from employees1 where salary>145000;
```

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	employees1	NULL	ALL	NULL	NULL	NULL	NULL	20	33.33	Using where

```
1 row in set, 1 warning (0.00 sec)
```

```
mysql> create index index1 on employees1(salary);
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> explain select first_name from employees1 where salary>145000;
```

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	employees1	NULL	range	index1	index1	5	NULL	2	100.00	Using index condition

```
1 row in set, 1 warning (0.00 sec)
```



```
mysql> select first_name from employees1 where employee_id=10;
```

first_name
Emma

```
1 row in set (0.00 sec)
```

```
mysql> explain select first_name from employees1 where employee_id=10;
```

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	employees1	NULL	ALL	NULL	NULL	NULL	NULL	20	10.00	Using where

```
1 row in set, 1 warning (0.00 sec)
```

```
mysql> create index index1 on employees1(employee_id);
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> explain select first_name from employees1 where employee_id=10;
```

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	employees1	NULL	ref	index1	index1	5	const	1	100.00	NULL

```
1 row in set, 1 warning (0.00 sec)
```

```
mysql> show index from employees;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
employees	1	index1	1	employee_id	A	20			YES	BTREE			YES	

```
1 row in set (0.00 sec)
```